A NEW BUILDING REPLACEMENT FOR:

FINKLEA FIRE STATION #6

HORRY COUNTY, SOUTH CAROLINA

SUBMITTAL DATE: SEPTEMBER 27, 2024
ARCHITECT PROJECT NO. 24002
HORRY COUNTY PROJECT NO. 2023-24-059

CONSTRUCTION DOCUMENTS SUBMITTAL

ARCHITECT:

PMH CROFT ARCHITECTS • ENGINEERS

1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
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CIVIL ENGINEER:

Diamond Shores, LLC
Civil Engineering
315 Main Street
Unit 11
Conway, SC 29526
843-448-2900

STRUCTURAL ENGINEER:

Weatherly Engineering, LLC
Structural Engineering
514 Alder Street, Box B, Suite 2
Myrtle Beach, SC 29577
843-448-3428

PLUMBING, MECHANICAL, ELECTRICAL ENGINEER

RAST Dallery
Plumbing, Mechanical, Electrical Engineering
4403 Broad River Road
Columbia, SC 29210
803-731-9834

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BUILDING CODE ANALYSIS

2021 IBC CODE ITEM	DESIGNATION
OCCUPANCY CLASSIFICATION	S1-BAYS/B-DAYROOMS/R2-BUNK ROOM
CONSTRUCTION CLASSIFICATION:	TYPE II, B (TABLE 601)
AREA: ALLOWED:	92,000 SF (TABLE 506.2)
AREA ACTUAL:	8,389 SF TOTAL FOR 3-BAY 1,342 SF TOTAL FOR 4-BAY
HEIGHT ALLOWED:	75 FEET (TABLE 504.3)
HEIGHT ACTUAL:	21'-0"
STORIES ALLOWED:	4 (TABLE 504.4)
STORIES ACTUAL:	1
STRUCTURAL MEMBERS (HRS):	(NON-COMBUSTIBLE -TABLE 601)
EXTERIOR BEARING WALL:	0
EXTERIOR NON-LOAD BEARING WALLS:	0
INTERIOR BEARING WALLS:	0
COLUMNS:	0
BEAMS / GIRDERS:	0
FLOOR CONSTRUCTION:	0
ROOF CONSTRUCTION:	0
SEPARATION WALLS (HRS):	
FIRE WALLS:	0
FIRE BARRIER	1 HR SEPARATION AT S-1
EXIT STAIRS:	NA
HORIZONTAL EXIT:	NA
EXIT OUTLET:	NA
EXIT ACCESS:	NA
ELEVATOR AND SHAFT:	NA
INTERIOR PARTITIONS:	NA

GENERAL NOTES:

PROJECT CLASSIFICATION IS MIXED USE.

ABBREVIATIONS:
NA=NOT APPLICABLE, S.F.=SQUARE FEET, HR=HOUR, MIN=MINUTES

1. CURRENT CODES USED FOR DESIGN OF THE NEW FACILITY:
   - 1.1. 2021 INTERNATIONAL BUILDING CODE (IBC)
   - 1.2. 2021 INTERNATIONAL FIRE CODE
   - 1.3. 2021 INTERNATIONAL PLUMBING CODE
   - 1.4. 2021 INTERNATIONAL MECHANICAL CODE
   - 1.5. 2020 INTERNATIONAL ELECTRICAL CODE
   - 1.6. 2018 NFPA 101 LIFE SAFETY CODE
   - 1.7. 2017 ICC A117.1 STANDARDS FOR ACCESSIBILITY
2. ENTIRE FACILITY SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SYSTEM PER MINIMUM REQUIREMENTS OF IBC CHAPTER 9 TO SATISFY REQUIREMENTS OF 903.2.8 "GROUP R" CONDITIONS.
3. NON-COMBUSTIBLE METAL STUD INTERIOR AND EXTERIOR WALL FRAMING ONLY TO BE UTILIZED THROUGHOUT CONSTRUCTION OF THIS FACILITY.
4. FIRE TREATED WOOD USE LIMITED PER IBC SECTION 603.
5. DRAFTSTOPPING IS NOT REQUIRED PER EXCEPTIONS NOTED FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM AS OUTLINED IN IBC SECTION 708.4.
6. PORTABLE FIRE EXTENGUISHERS SHALL BE PROVIDED PER SECTION 906 AND INSTALLED PER REQUIREMENTS OF THE INTERNATIONAL FIRE CODE.
7. EXTERIOR WALL OPENING PROTECTION SHALL BE PROVIDED TO MEET MINIMUM REQUIREMENTS PER CHAPTER 16 - "STRUCTURAL DESIGN', SECTION 1609.1.2 'PROTECTION OF OPENINGS'. WINDOWS AND STOREFRONT SYSTEMS TO MEET MINIMUM CODE REQUIREMENTS FOR SMALL AND/OR LARGE MISSILE IMPACT AS REQUIRED, REFER TO STRUCTURAL LOAD TABLE DATA.
8. INSPECTIONS, SPECIAL TESTING AND SPECIAL INSPECTIONS AS REQUIRED BY 2021 IBC CHAPTERS 1 AND 17 SHALL BE REQUIRED FOR THIS PROJECT.
9. ALL WORK, MATERIALS, ETC., SHALL BE IN COMPLIANCE WITH ALL CURRENT CODES AND REGULATIONS HAVING JURISDICTION OVER PROJECT LOCATION.

PLUMBING FIXTURE COUNT (2021 IPC TABLE 403.1)

CLASSIFIC	TOT OCC	WC(M)	WC(F)	LAV(M)	LAV(F)	DF	OTHER
BUSINESS	44	1:25 up to 50 1:50 abv 50	1:25 up to 50 1:50 abv 50	1:40 up to 80 1:80 abv 80	1:40 up to 80 1:80 abv 80	1:100	JAN SINK
TOTAL		1	1	1	1	1	1
PROVIDED		3	2	3	2	1	1

MAX. FLOOR AREA PER OCCUPANT (TABLE 1004.5)

SPACE TYPE	SQ FT	SF/ PERSON
BUSINESS (B)	1,003	150 SF / PERSON
ASSEMBLY (A-3)	298	15 SF / PERSON
EXERCISE	216	50
STORAGE (S1)	209	300 SF / PERSON
TOTAL	1,726	44 (TOT OCCUPANTS)

VICINITY MAP



3421 SC-917, Loris, SC 29569

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STATE OF SOUTH CAROLINA
Croft &Associates SC, LLC
MYRTLE BEACH, S.C.
102094
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
JOSEPH CHARLES PIKE
MYRTLE BEACH, S.C.
2717
REGISTERED ARCHITECT

OWNER

HORRY COUNTY THE INDEPENDENT REPUBLIC S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 7-29-24

SHEET TITLE
COVER

SHEET NO.
COVER

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Horry County
Planning and Zoning
APPROVED FOR CONSTRUCTION

APPROVED
By Timothy Fox at 10:05 am, Feb 21, 2025

Approved Job Site Plan Set
Case # 68151

Approved for Construction

Thomas B. Roth CSPR #110
Horry County Stormwater

APPROVED
By barfielm at 2:58 pm, Feb 20, 2025

Horry County
Code Enforcement-Fire
APPROVED
Plans Approved by ALL Departments Unless Noted / Signed and Sealed Hardcopies

APPROVED
By Tom Keller at 12:42 pm, Jan 10, 2025

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

25' COUNTY ROAD EASEMENT

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE
MEDIAN
WEST BOUND LANE

CONTRACTOR TO REMOVE EXISTING PIPE AND DISPOSE OF OFFSITE, CONNECT EXISTING DITCHES, AND GRADE FOR POSITIVE FLOW.

INV.: 79.63 — EX PIPE 10 24" RCP — INV.: 79.72
INV.: 80.71 — EX PIPE 9 18" RCP — INV.: 80.65
INV.: 79.43 — EX PIPE 8 18" RCP — INV.: 79.28
INV.: 80.66 — DEMO EX PIPE 4 18" RCP — INV.: 83.10 — INV.: 83.30
INV.: 82.87 — EX PIPE 2 18" RCP — INV.: 82.42 — INV.: 82.79
EX PIPE 3 36" RCP — INV.: 80.65
INV.: 84.13 — EX PIPE 5 18" RCP — INV.: 84.20

249.20' S 64°11'20" E C1

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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SOUTH CAROLINA
DIAMOND SHORES SURVEYING, LLC NO: 6642
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
TYLER R. NOBLES

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
EXISTING CONDITIONS

SHEET NO.
C2.1

ZONING TABLE	
PIN	156-12-02-0008
ZONING DISTRICT	FA
PROPOSED USE	PUBLIC USE/FIRE STATION/ROAD SERVICE
REQUIRED SETBACKS	FRONT 60' / SIDE 25' / REAR 40'
PROPOSED SETBACKS	FRONT 60' / SIDE 25' / FRONT 60'
MAXIMUM BUILDING HEIGHT	35'
PROPOSED BUILDING AREA	8390 SF
REQUIRED PARKING	3(BAYS) X 4 = 12 + 10(EMP) = 22
PROPOSED PARKING	26 + 3(BAYS) = 29

NO COVENANTS OR RESTRICTIONS EXIST FOR THIS PROPERTY.

NO EXISTING LIVE OAKS 24" DBH OR GREATER EXIST ON THIS PROPERTY.

LIGHT FIXTURES SHALL BE FULLY-CUTOFF TO MEET ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) CRITERIA. LIGHTING SHALL BE AIMED STRAIGHT DOWN. LIGHTING SHALL NOT PRODUCE ILLUMINATION THAT EXCEEDS 1 FOOTCANDLE BEYOND ANY RESIDENTIAL LOT LINE.

ALL SIGNAGE SHOWN ON THE SITE PLANS WILL BE PERMITTED SEPARATELY BY THE OWNER/DEVELOPER OR THE SELECTED SIGN COMPANY.

UPON SUBSTANTIAL PROJECT COMPLETION, CONTRACTOR TO CLEAR EXISTING CULVERTS/PIPES, CATCH BASINS, AND DITCHES ALONG FRONTAGE AND DOWNSTREAM AS NECESSARY TO ACHIEVE POSITIVE DRAINAGE.

Engineering Dept. Approved for Construction
Horry County
SOUTH CAROLINA

POND 1
TOP=85.00
NWL=80.75
BOT=76.00
25 YR HGL=83.19
100 YR HGL=84.02

VOLUME=0.77 AC/FT.
AREA @ TOP=0.23 AC

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

25' COUNTY ROAD EASEMENT

10' TYPE C STREETSCAPE BUFFER

60' FRONT SETBACK

25' SIDE SETBACK & 25' TYPE A LANDSCAPE BUFFER

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

25' SIDE SETBACK

5' TYPE B LANDSCAPE BUFFER

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE

MEDIAN

WEST BOUND LANE

TRANSFORMER PAD

GENERATOR PAD

PROPANE TANK PAD

HVAC

DUMPSTER ENCLOSURE

FUTURE DRIVEWAY EXPANSION

FUTURE BUILDING EXPANSION

BAY DOORS

ADA PARKING SIGN

SD ASPHALT

HD CONCRETE

ALL HEAVY DUTY (HD) CONCRETE TO HAVE A 28 DAY CURING TIME WITH NO TRAFFIC.

3' CURB TAPER (TYP)

ALL MARKINGS WITHIN SCDOT R/W SHALL BE APPROVED PERMANENT PAVEMENT MARKINGS PER SECTIONS 625, 626, OR 627 WITHIN THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

APPLY DOUBLE YELLOW LINE PER SCDOT DETAIL.

24" STOP BAR

36" STOP SIGN (R-1-1-36)(TYP)

CONTRACTOR TO SAWCUT EXISTING ASPHALT FOR SMOOTH JOINT NOT ALIGNED WITH WHEEL PATH.

SCDOT ASPHALT SECTION

RELOCATE EXISITNG SCDOT SIGNAGE AS NECESSARY IN ACCORDANCE WITH SECTIONS 650-000 & 654-000 OF THE SCDOT STANDARD DRAWINGS.

SCDOT CONCRETE SECTION

INV.: 79.63
INV.: 79.72
INV.: 80.71
INV.: 80.65
INV.: 79.43
INV.: 79.28
INV.: 80.65
INV.: 82.87
INV.: 82.42
INV.: 82.79
INV.: 84.13
INV.: 84.20

S 64°11'20" E 249.20'

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GRAPHIC SCALE
1" = 20'

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NORTH CAROLINA
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NO: 6642
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
KYLE R. NOBLES
SEAL 049442

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
SITE PLAN

SHEET NO.
C3.1

ZONING TABLE	
PIN	156-12-02-0008
ZONING DISTRICT	FA
PROPOSED USE	PUBLIC USE/FIRE STATION/ROAD SERVICE
REQUIRED SETBACKS	FRONT 60' / SIDE 25' / REAR 40'
PROPOSED SETBACKS	FRONT 60' / SIDE 25' / FRONT 60'
MAXIMUM BUILDING HEIGHT	35'
PROPOSED BUILDING AREA	9730 SF
REQUIRED PARKING	4(BAYS) X 4 = 16 + 14(EMP) = 30
PROPOSED PARKING	26 + 4(BAYS) = 30

NO COVENANTS OR RESTRICTIONS EXIST FOR THIS PROPERTY.

NO EXISTING LIVE OAKS 24" DBH OR GREATER EXIST ON THIS PROPERTY.

LIGHT FIXTURES SHALL BE FULLY-CUTOFF TO MEET ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) CRITERIA. LIGHTING SHALL BE AIMED STRAIGHT DOWN. LIGHTING SHALL NOT PRODUCE ILLUMINATION THAT EXCEEDS 1 FOOTCANDLE BEYOND ANY RESIDENTIAL LOT LINE.

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UPON SUBSTANTIAL PROJECT COMPLETION, CONTRACTOR TO CLEAR EXISTING CULVERTS/PIPES, CATCH BASINS, AND DITCHES ALONG FRONTAGE AND DOWNSTREAM AS NECESSARY TO ACHIEVE POSITIVE DRAINAGE.

POND 1
TOP=85.00
NWL=80.75
BOT=76.00
25 YR HGL=83.19
100 YR HGL=84.02

VOLUME=0.77 AC/FT.
AREA @ TOP=0.23 AC

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

25' COUNTY ROAD EASEMENT

10' TYPE C STREETSCAPE BUFFER

60' FRONT SETBACK

25' SIDE SETBACK & 25' TYPE A LANDSCAPE BUFFER

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

25' SIDE SETBACK

5' TYPE B LANDSCAPE BUFFER

3' CURB TAPER (TYP)

TRANSFORMER PAD

GENERATOR PAD

PROPANE TANK PAD

HVAC

DUMPSTER ENCLOSURE

HD CONCRETE

ALL HEAVY DUTY (HD) CONCRETE TO HAVE A 28 DAY CURING TIME WITH NO TRAFFIC.

BAY DOORS

ADA PARKING SIGN

SD ASPHALT

APPLY DOUBLE YELLOW LINE PER SCDOT DETAIL.

24" STOP BAR

36" STOP SIGN (R-1-1-36)(TYP)

CONTRACTOR TO SAWCUT EXISTING ASPHALT FOR SMOOTH JOINT NOT ALIGNED WITH WHEEL PATH.

SCDOT ASPHALT SECTION

RELOCATE EXISITNG SCDOT SIGNAGE AS NECESSARY IN ACCORDANCE WITH SECTIONS 650-000 & 654-000 OF THE SCDOT STANDARD DRAWINGS.

SCDOT CONCRETE SECTION

ALL MARKINGS WITHIN SCDOT R/W SHALL BE APPROVED PERMANENT PAVEMENT MARKINGS PER SECTIONS 626, 626, OR 627 WITHIN THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE

MEDIAN

WEST BOUND LANE

GRAPHIC SCALE
1" = 20'

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HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

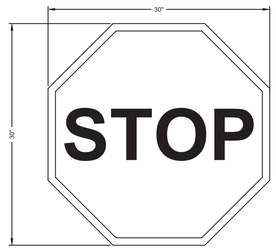
DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
ALTERNATE SITE PLAN

SHEET NO.
C3.1A

NOTE:

THE BORDER AND THE LETTERS MUST RETROREFLECTIVE WHITE. THE BACKROUND MUST BE RETROREFLECTIVE RED.



SIGN NOTES:

1. SIGNS MUST BE INSTALLED 7' IN HEIGHT FROM BOTTOM OF THE SIGN TO THE ELEVATION OF THE TRAVELED WAY.
2. SIGNS MUST BE INSTALLED 6' FROM THE EOP.
3. SIGNS MUST HAVE RETROREFLECTIVE MATERIAL.
4. SIGNS MUST HAVE LETTERS AT A MINIMUM OF 6" IN HEIGHT

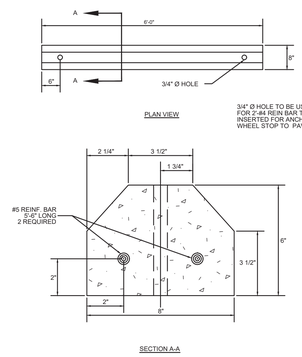
STOP SIGN DETAIL (NON SCDOT)



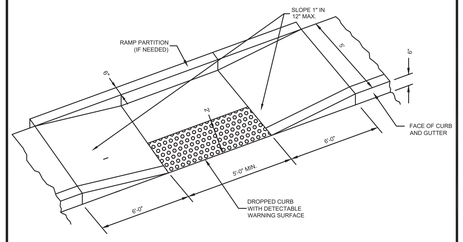
BACKGROUND - WHITE RETROREFLECTIVE
LETTERING/BORDER - GREEN RETROREFLECTIVE
WHITE SYMBOL ON BLUE RETROREFLECTIVE

NOTES:
1. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN IDENTIFICATION
[502.6] SOUTH CAROLINA HANDICAPPED PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED TO THE BOTTOM OF THE SIGN.
2. METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS AND SCREWS MUST BE RUSTPROOF.
3. SIGN POST SHALL BE A MINIMUM OF 2 FEET BEHIND BACK OF CURB OR SIDEWALK.

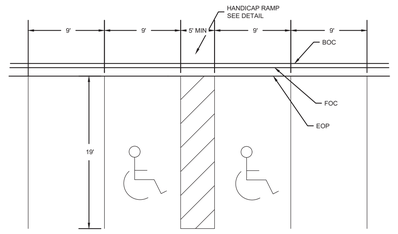
R7-8 HANDICAP PARKING SIGN



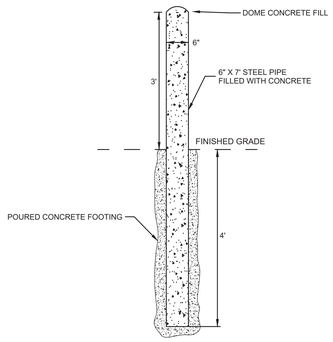
REINFORCED CONCRETE WHEEL STOP



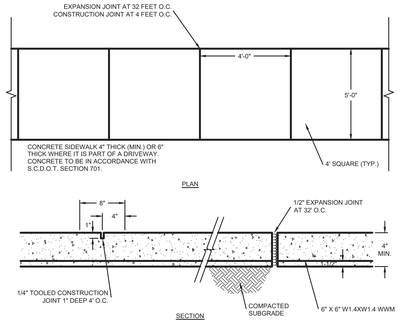
HANDICAP SIDEWALK/RAMP



PARKING SPACE

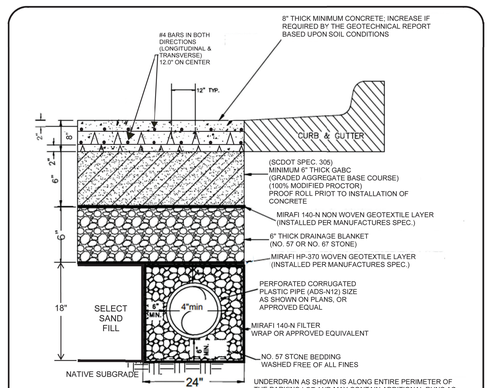


6" GUARD POST



WIDTH BETWEEN BACK OF CURB AND SIDEWALK VARIES. WHERE NO CURBING IS REQUIRED, MINIMUM SIDEWALK SEPARATION WILL BE MEASURED FROM THE EDGE OF PAVEMENT.

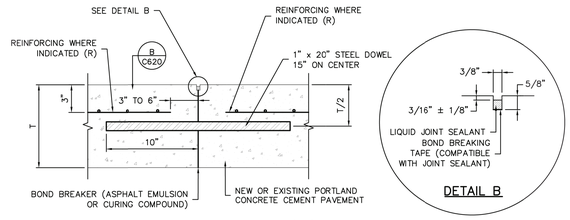
TYPICAL SIDEWALK



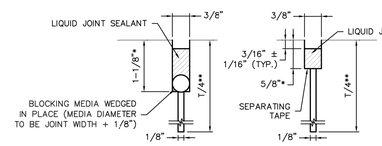
NOTES
1. ALL MATERIALS SHALL MEET APPLICABLE STANDARDS SET FORTH IN THE SCDOT CONSTRUCTION STANDARDS, LATEST EDITION
2. SUBGRADE SHALL BE FREE OF ALL ROCKS AND DEBRIS LARGER THAN 1" DIAMETER. CERTIFIED COMPACTION TESTS MUST BE SUBMITTED TO ENGINEER PRIOR TO APPLICATION OF BASE MATERIAL.
3. SUBGRADE SHALL BE GRADED AND SLOPED TOWARD DRAINAGE STURCTURES AND STCHED TO PREVENT THE ENTRAPMENT OF WATER WITHIN BASE MATERIAL. SUBGRADE SHALL BE INSPECTED AND APPROVED BY OWNERS REPRESENTIVE PRIOR TO THE INSTALLATION OF BASE
4. CONCRETE SHALL HAVE THE FOLLOWING 28 DAY MINIMUM COMPRESSIVE STRENGTHS AND SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 3/4". FOR RENOVATION PROJECTS: USE 5,000 PSI
FOR NEW CONSTRUCTION PROJECTS: USE 4,000 PSI
HIGH-RANGE WATER REDUCER IS RECOMMENDED DUE TO THE STEEL AND WIRE.

CONCRETE PAVEMENT SECTION
NOT TO SCALE

Pavement Detail	SCALE: AS SHOWN	FIGURE NO. 5
Finklea Fire Station No. 6 Green Sea, Horry County, South Carolina	DATE: 5/8/24	
	PROJECT NUMBER 23630075A	



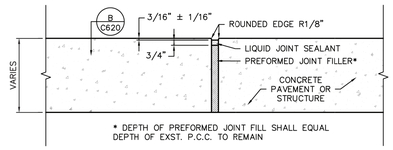
DOWELED CONSTRUCTION JOINT (DJ)



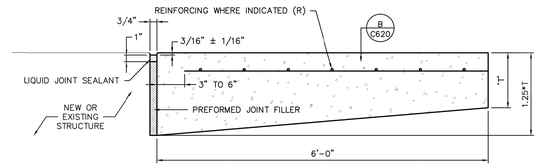
NOTE:
CONTRACTOR MAY AT HIS OPTION, PROVIDE ANY ONE OF THE ABOVE TYPES OF CONTRACTION JOINTS.

* SECOND SAW CUT
** FIRST SAW CUT

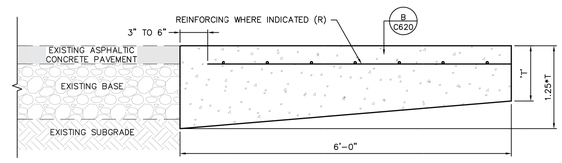
CONTRACTION JOINTS (CJ)



EXPANSION JOINT (EJ)



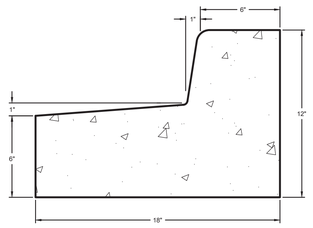
THICKENED EDGE EXPANSION JOINT (TEEJ)



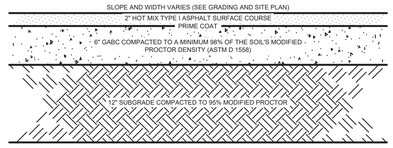
THICKENED EDGE (TE)

PAVEMENT THICKNESS = T

F PAVEMENT JOINTS
NOT TO SCALE

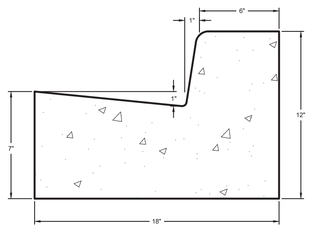


CONCRETE REJECT CURB

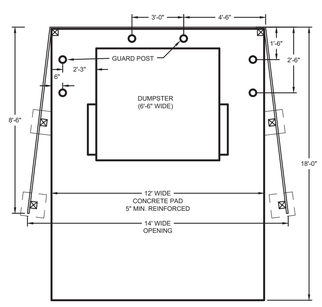


NOTE:
AREAS OF SUBGRADE BENEATH CURBING SHALL BE COMPACTED TO A MINIMUM 95% MODIFIED PROCTOR COMPACTION

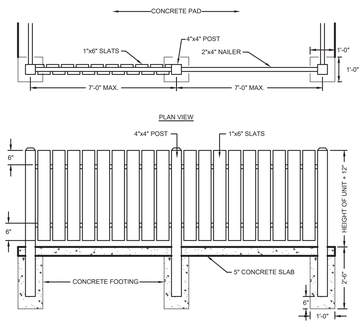
TYPICAL PAVEMENT SECTION



CONCRETE BARRIER CURB & GUTTER



DUMPSTER PAD



SCREEN FENCE

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SOUTH CAROLINA
DIAMOND SHORES SURVEYING, LLC NO. 6642
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
LEE R. NOBLES

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

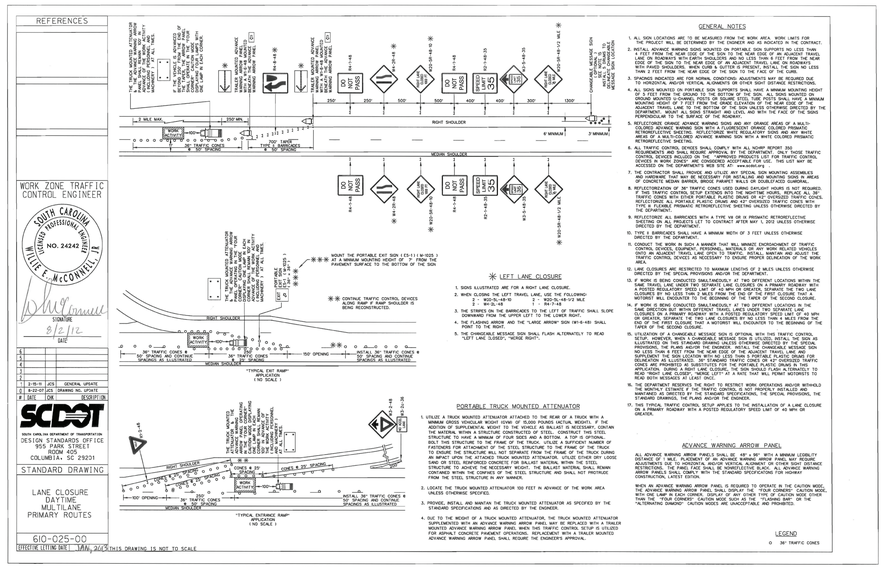
PROJECT NUMBER
24002

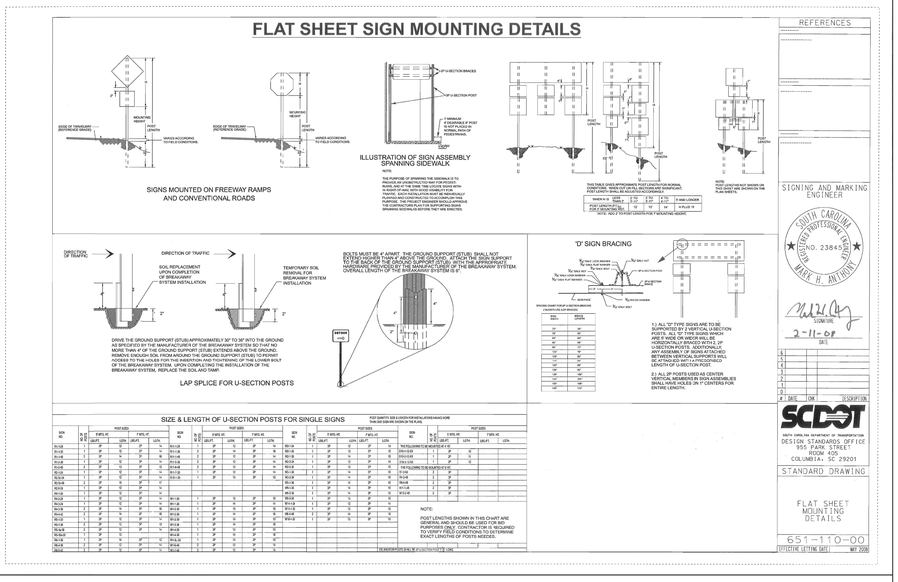
DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
SITE DETAILS

SHEET NO.
C3.2

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FLAT

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FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

INV.: 79.63
EX PIPE 10
24" RCP
INV.: 79.72
INV.: 80.43
EX PIPE 9
18" RCP
INV.: 80.65
INV.: 79.43
EX PIPE 8
18" RCP
INV.: 79.28

LOD

INSTALL DIVERSION DITCHES
TO FLOW TO PROPOSED POND

SP

TEMPORARY
STOCKPILE AREA

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

25' SIDE SETBACK &
25' TYPE A LANDSCAPE BUFFER

25' COUNTY ROAD EASEMENT

10' TYPE C
STREETSCAPE BUFFER

60' FRONT SETBACK

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

25' SIDE SETBACK

5' TYPE B
LANDSCAPE BUFFER

INSTALL DIVERSION DITCHES
TO FLOW TO PROPOSED POND

INSTALL SILT
FENCE AT LOD

LOD=2.74 AC

60' FRONT SETBACK

CE

10' TYPE C
STREETSCAPE BUFFER

249.20'
S 64°11'20" E

EXISTING 10" WATER MAIN
(WAS NOT FIELD LOCATED
BY SURVEYOR OR ENGINEER)

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE
MEDIAN
WEST BOUND LANE

EX PIPE 2
18" RCP
INV.: 82.87
INV.: 82.42
INV.: 82.79
EX PIPE 3
36" RCP
INV.: 80.65
INV.: 84.13
EX PIPE 5
18" RCP
INV.: 84.20

OHE

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

EROSION CONTROL - INITIAL PHASE CONSTRUCTION SEQUENCE:

1. OBTAIN ALL NECESSARY PERMITS AND APPROVALS
2. CONDUCT ON-SITE PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, OWNER, HORRY COUNTY REPRESENTATIVE, ENGINEER OF RECORD AND CONSTRUCTION MANAGER TO EXECUTE THE SWPPP AND SCOPE OF THE PROJECT.
3. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WITHIN THE PROJECT AREA AND ADJACENT AREA OF THE SITE. VERIFY WITH PALMETTO UTILITY PROTECTION SERVICE BEFORE DIGGING OR ANY LAND DISTURBANCE TAKES PLACE.
4. INSTALL PERIMETER EROSION CONTROL DEVICES, ALL TREE PROTECTION, AS REQUIRED, AND INSTALL CONSTRUCTION ENTRANCE.
5. INSTALL CULVERT PIPE AT THE CONSTRUCTION ENTRANCE FOR SITE ACCESS.
6. BEGIN EXCAVATION OF POND TO BE USED AS A TEMPORARY SEDIMENT BASIN. CONTRACTOR TO CLEAR AND GRUB AREAS NEEDED TO EXCAVATE POND , OUTLET STRUCTURE, AND TO PLACE SPOIL ON LOTS AS NEEDED. SEDIMENT TRAPS SHALL BE USED FOR ALL DEWATERING PRACTICES.
7. CONTRACTOR TO SEED ALL POND SLOPES PER THE TEMPORARY SEEDING SCHEDULE ON THE SWPPP DETAIL SHEETS IMMEDIATELY UPON COMPLETION OF EXCAVATION.

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NORTH CAROLINA
DIAMOND SHORES SURVEYING, LLC
NO: 6642
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
KYLE R. NOBLES
PE-48.6442

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
1801
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
SWPPP INITIAL PHASE PLAN

SHEET NO.
C4.1

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EROSION CONTROL - FINAL PHASE CONSTRUCTION SEQUENCE:

1. ENSURE ALL SLOPES ARE STABILIZED WITH ACCEPTABLE MATERIAL(S) BY HORRY COUNTY ENGINEERING AND STORMWATER DEPARTMENT.
2. ENSURE ALL DISTURBED AREAS HAVE 70% OR GREATER STABILIZATION.
3. HOLD ON-SITE FINAL INSPECTION WITH COUNTY REPRESENTATIVE, CONTRACTOR AND ENGINEER OF RECORD.
4. PREPARE ALL CLOSEOUT DOCUMENTS AND AS-BUILTS RECORD DRAWINGS AS REQUIRED BY HORRY COUNTY STORMWATER DEPT. AND ANY ASSOCIATED UTILITY PROVIDERS FOR THE PROJECT.
5. REPAIR ALL PUNCH LIST ITEMS AS DETERMINED BY HORRY COUNTY DEPARTMENTS IF APPLICABLE.
6. UPON APPROVAL FROM HORRY COUNTY AND SC-DHEC OCRM, REMOVE FINAL SEDIMENT AND EROSION CONTROL BMPS.

POND 1
TOP=85.00
NWL=80.75
BOT=76.00
25 YR HGL=83.19
100 YR HGL=84.02

VOLUME=0.77 AC/FT.
AREA @ TOP=0.23 AC

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE
MEDIAN
WEST BOUND LANE

25' COUNTY ROAD EASEMENT
10' TYPE C STREETSCAPE BUFFER
60' FRONT SETBACK
25' SIDE SETBACK
5' TYPE B LANDSCAPE BUFFER

TEMPORARY STOCKPILE AREA

ALL MARKINGS WITHIN SCDOT R/W SHALL BE APPROVED PERMANENT PAVEMENT MARKINGS PER SECTIONS 626, 626, OR 627 WITHIN THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

SCDOT ASPHALT SECTION

SCDOT CONCRETE SECTION

EX PIPE 1 24" RCP — INV.: 79.63
EX PIPE 10 24" RCP — INV.: 79.72
EX PIPE 8 18" RCP — INV.: 79.43 / INV.: 79.28
EX PIPE 2 18" RCP — INV.: 82.87 / INV.: 82.42 / INV.: 82.79
EX PIPE 3 36" RCP — INV.: 80.65
EX PIPE 5 18" RCP — INV.: 84.13 / INV.: 84.20

GRAPHIC SCALE
1" = 20'

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STATE OF SOUTH CAROLINA — CERTIFICATE OF AUTHORIZATION — DIAMOND SHORES SURVEYING, LLC NO: 6642

STATE OF SOUTH CAROLINA — PROFESSIONAL ENGINEER — TYLER R. NOBLES

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

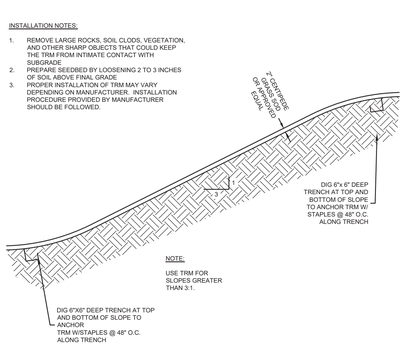
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

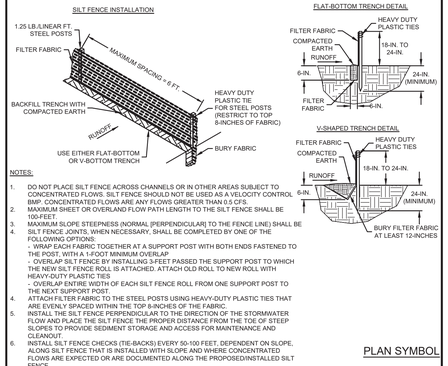
DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
SWPPP STABILIZATION PHASE PLAN

SHEET NO.
C4.2



SLOPE STABILIZATION DETAIL
N.T.S.



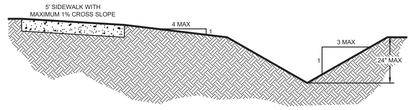
SILT FENCE

PLAN SYMBOL

PERMANENT SEEDING SCHEDULE				
SCHEDULE #		COMMON NAME OF SEED	SEEDING RATE POUNDS PER ACRE	PLANTING DATES
1		COMMON BERMUDA (HULLED)	60	MARCH 1st - AUGUST 14th
		SERICEA LESPEDEZA (SCARIFIED)	50	
2		COMMON BERMUDA (UNHULLED)	90	AUGUST 15TH - FEBRUARY 28TH
		SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	80	
		ANNUAL RYEGRAIN	15	

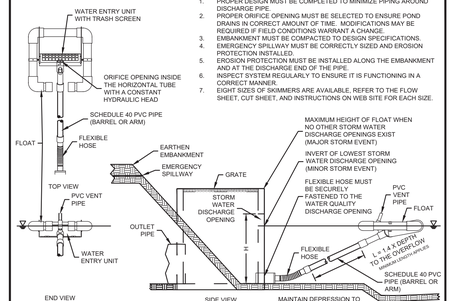
TEMPORARY SEEDING SCHEDULE				
SCHEDULE #		COMMON NAME OF SEED	SEEDING RATE POUNDS PER ACRE	PLANTING DATES
1		BROWNTOP MILLET	40	MARCH 1st - AUGUST 31st
2	RYEGRAIN (ALONE) RYEGRAIN (MIX)	RYE, GRAIN	56	AUGUST 31st - MARCH 15th
3		RYEGRASS	56 10	AUGUST 31st - APRIL 15th

SWPPP DETAIL

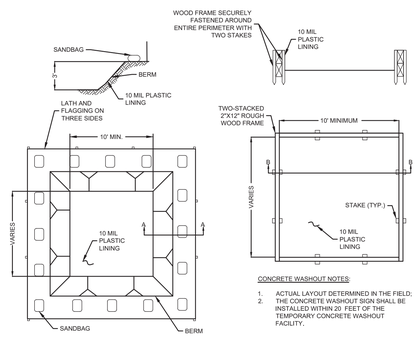


NOTE: SEED ALL DISTURBED AREAS PER SEEDING SPECIFICATIONS.

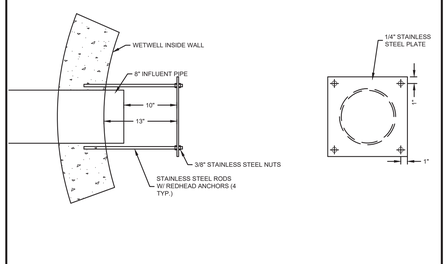
TYPICAL DITCH & SIDEWALK CROSS SECTION



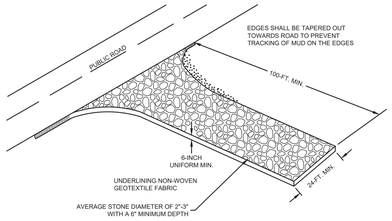
FAIRCLOTH SKIMMER DISCHARGE SYSTEM WITH OUTLET STRUCTURE



CONCRETE WASHOUT DETAIL
N.T.S.



SPLASH DEFLECTOR PLATE
N.T.S.



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

GENERAL NOTES:
1. STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL EGRESS/INGRESS A CONSTRUCTION SITE ONTO A PUBLIC ROAD OR ANY IMPERVIOUS SURFACES, SUCH AS PARKING LOTS.
2. INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY STONE.
3. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
4. THE ENTRANCE SHALL CONSIST OF 2-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
5. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 15-FEET WIDE BY 20-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
6. THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING AT THE EDGE OF THE ENTRANCE.
7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
8. LIMESTONE MAY NOT BE USED FOR THE STONE PAD.

INSPECTION & MAINTENANCE:
1. THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
2. REGULAR INSPECTIONS OF CONSTRUCTION ENTRANCES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
3. DURING REGULAR INSPECTIONS, CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. INSPECTION FREQUENCIES MAY NEED TO BE MORE FREQUENT DURING LONG PERIODS OF WET WEATHER.
4. RESHAPE THE STONE PAD AS NECESSARY FOR DRAINAGE AND RUNOFF CONTROL.
5. WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY SITE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE THE AMOUNT OF MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE PAD.
6. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO ADJACENT IMPERVIOUS SURFACES BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
7. DURING MAINTENANCE ACTIVITIES, ANY BROKEN PAVEMENT SHOULD BE REPAIRED IMMEDIATELY.
8. CONSTRUCTION ENTRANCES SHOULD BE REMOVED AFTER THE SITE HAS REACHED FINAL STABILIZATION. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH CONSTRUCTION ENTRANCES HAVE BEEN REMOVED. UNLESS AREA WILL BE CONVERTED TO AN IMPERVIOUS SURFACE TO SERVE POST-CONSTRUCTION.

STABILIZED CONSTRUCTION ENTRANCE

PLAN SYMBOL



SECTION 02821
FINISH GRADING AND GRASSING

1.1 WORK INCLUDED

A. THIS SECTION COVERS THE WORK NECESSARY FOR THE FINISH GRADING AND GRASS ESTABLISHMENT, COMPLETE, INCLUDING FURNISHING AND DELIVERY OF MATERIAL, SEEDING, AND MAINTENANCE OF GRASS.

B. SEE DIVISION 1, GENERAL REQUIREMENTS, WHICH CONTAIN INFORMATION AND REQUIREMENTS THAT APPLY TO THE WORK SPECIFIED HEREIN AND ARE MANDATORY FOR THIS PROJECT.

C. ALL AREAS ALONG ADJACENT ROAD SHOULDER AREAS DAMAGED BY THE CONTRACTOR'S OPERATIONS, AND AREAS ON THE PROJECT SITE NOT SHOWN TO BE SODDED ON THE LANDSCAPING PLANS, SHALL BE FINISHED, GRADED AND GRASSED. RESPONSIBILITY FOR FINISH GRADING AND GRASSING SHALL LIE WITH THE GENERAL CONTRACTOR, AND ALL COSTS FOR SUCH WORK IN COMPLIANCE WITH THESE SPECIFICATIONS SHALL BE INCLUDED IN HIS BID. GRASSING SHALL CONSIST OF FERTILIZING, MULCHING, SEEDING, ROLLING AND WATERING UNTIL A HEALTHY GROWTH IS ACHIEVED.

D. THE CONTRACTOR MAY SPRIG OR SOD IN LIEU OF SEEDING, IF APPROVED BY THE ENGINEER AND OWNER

2.1 PRODUCTS

A. TOPSOIL: USE EXISTING TOPSOIL FROM STOCKPILES AT THE SITE, IF AVAILABLE. SUITABLE TOPSOIL SHALL BE A SANDY LOAM, FRIABLE AND FERTILE IN NATURE, WITH NO GREATER THAN 25% CLAYS AND SILTS. IT SHALL BE FREE OF CLODS, ROOTS, GRAVEL AND INERT MATERIAL. IT SHALL CONTAIN NO NOXIOUS VEGETATION OR REGENERATIVE MATERIAL.

B. SEED, MULCH, FERTILIZERS:

1. SEED, MULCH, EMULSIFIED ASPHALT, LIME AND FERTILIZER SHALL MEET THE REQUIREMENTS OF SECTION SCA1-810, OF THE STATE OF SOUTH CAROLINA "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION". A LIST OF MATERIALS SHALL BE SUPPLIED TO THE ENGINEER FOR REVIEW, WELL IN ADVANCE OF DELIVERY.

2. MATERIALS SHALL BE SELECTED FOR EXISTING SITE CONDITIONS, ACCORDING TO THE APPROPRIATE SEASONAL SEEDING SCHEDULES IN THE STANDARD SPECIFICATIONS, AND THE SEEDING SCHEDULE ON THE PERMITTED PLANS.

3.1 DELIVERY, HANDLING, AND STORAGE

A. SEED, SOD, TOPSOIL, FERTILIZER AND OTHER MATERIALS REQUIRED FOR THE COMPLETION OF THIS WORK SHALL BE TRANSPORTED TO THE SITE PROPERLY PACKAGED AND COVERED TO PREVENT CONTAMINATION FROM RAIN, DUST OR OTHER OBJECTIONABLE MATTER. MATERIALS SHALL BE STORED PROPERLY, SO THAT SEED ARE KEPT DRY AND SOD IS MAINTAINED IN A MOIST CONDITION, WITH SUCH OTHER MEASURES AS MAY BE REQUIRED TO PRESERVE AND PROTECT THE QUALITY OF THE MATERIALS.

3.2 CONSTRUCTION METHODS

A. TOPSOIL AND FINISH GRADING:

1. SPREAD TOPSOIL OVER THE PREPARED ROUGH GRADE USING A RUBBER-TIRED TRACTOR WITH GRADER BLADE OR EQUIVALENT NOT WEIGHING MORE THAN 3-1/2 TONS. A MINIMUM OF 3 INCHES OF TOPSOIL IS REQUIRED.

2. THOROUGHLY MIX THE APPLIED TOPSOIL TO A DEPTH OF 6 INCHES BY RUNNING A ROTOTILLER OVER THE ENTIRE AREA IN TWO DIRECTIONS AT RIGHT ANGLES

3. RAKE THE TOPSOILED AREA TO A UNIFORM GRADE SO THAT ALL AREAS DRAIN, AS INDICATED ON THE GRADING PLAN.

4. LIGHTLY COMPACT WITH A CULTIPACKER BEFORE PLANTING GRASS

5. REMOVE ALL TRASH AND STONES EXCEEDING 1 INCH IN DIAMETER FROM AREA TO A DEPTH OF 2 INCHES PRIOR TO PREPARATION AND PLANTING GRASS.

B. LIME & FERTILIZING: APPLY COMMERCIAL FERTILIZER, UNLESS SOIL TESTING INDICATES OTHERWISE, (16-4-8) AT THE RATE OF 10 POUNDS PER 1,000 SQUARE FEET, DISTRIBUTING UNIFORMLY WITH A MECHANICAL SPREADER. ADD PELLETIZED LIME AT RATES INDICATED BY THE SOIL TESTING. APPLY LIMESTONE BY BROADCASTING OR SPREADING TO ACHIEVE DESIRED PH OF 6.2-6.5.

C. PERMANENT SEEDING SHALL BE INSTALLED AT AREAS WHERE SHOWN ON THE PLANS, ON AND AROUND LAKE BANKS, NEXT TO WETLANDS AND, IN NON-YARD AREAS INSTALL PERMANENT SEEDING IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN 72 HOURS. ALL SEEDED AREAS WHICH WILL NOT BE IRRIGATED SHALL BE COVERED WITH CHOPPED HAY MULCH FOR MOISTURE RETENTION.

1. TIME OF SEEDING: CONDUCT SEEDING UNDER FAVORABLE WEATHER CONDITIONS DURING SEASONS WHICH ARE NORMAL FOR SUCH WORK AS DETERMINED BY SECTION SC-M-810 OF THE STANDARD SPECIFICATIONS.

2. SEEDING: SOW GRASSED AREAS EVENLY WITH A MECHANICAL SPREADER AT THE RATE INDICATED IN THE STANDARD SPECIFICATIONS (SCM-M-810), OR AS DIRECTED IN (4.) BELOW. ROLL WITH A CULTIPACKER TO COVER SEED, AND WATER WITH FINE SPRAY. METHOD OF SEEDING MAY BE VARIED AT THE DISCRETION OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH A SMOOTH, UNIFORMLY GRASSED AREA.

A. THE CONTRACTOR SHALL DRILL BERMUDA/CENTIPEDE SEED AT 1-1/2 TIMES THE STANDARD APPLICATION RATES PER ACRE. CHECK WITH THE DEVELOPER / BUILDER BEFORE YOU SPECIFY THE TYPE OF SEED (BERMUDA/CENTIPEDE) THAT MATCHES THE SOD THEY PLAN TO USE.

B. THE CONTRACTOR SHALL OVERSEED WITH A TEMPORARY HYDROSEED MIXTURE THAT INCLUDES SEASONAL TEMPORARY SEED, FERTILIZER AND LIME, WITH WRITTEN VERIFICATION TO THE ENGINEER OF THE QUANTITY OF EACH SEED USED IN THE HYDROSEED MIX (SEE TEMP. SEED SCHEDULE)

C. THE CONTRACTOR SHALL SPRAY HAY MULCH (WITH TACKIFIER ON SLOPES) OVER THE PERMANENT SEEDING AREA.

3. SEEDING (ADJACENT TO WETLANDS): PERMANENT SEEDING AREAS SHALL EXTEND FROM THE CLEARING LIMIT TO A POINT OF THE EDGE OF THE WATER ON LAKES, UP TO WITHIN 15' OR LESS OF THE REAR BUILDING SETBACK, WHERE WETLANDS ARE PRESENT. PERMANENT SEEDING AREAS SHALL BE NO LESS THAN 30' FROM THE EDGE OF THE WETLAND CLEARING LIMIT. IF SILT FENCE IS IN THIS AREA, IT MUST BE REMOVED UNTIL THE SEEDING IS COMPLETED, AND REINSTALLED 30' FROM THE WETLAND ONCE THE GRADING AND SEEDING IS COMPLETED. PERMANENT SEEDING ADJACENT TO WETLAND AREAS SHALL BE COMPLETED IN A SINGLE CONTINUOUS OPERATION, SUCH THAT THE CLEARED AREA SHALL BE BROUGHT TO FINAL GRADE AND PLANTED WITH PERMANENT SEED IMMEDIATELY AFTER CLEARING.

4. GRASS SEED: PERMANENT SEED SHALL BE COMMON HULLED BERMUDA, APPLIED AS DIRECTED BELOW. A QUICK-GROWING TYPE OF SEED, SUCH AS ANNUAL RYEGRASS, SHALL NOT BE USED EXCEPT WHEN OTHERWISE DIRECTED OR IN STRICTLY RURAL AREAS AWAY FROM RESIDENTIAL LAWNS.

D. TEMPORARY SEEDING

1. TIME OF SEEDING: CONDUCT SEEDING UNDER FAVORABLE WEATHER CONDITIONS DURING SEASONS WHICH ARE NORMAL FOR SUCH WORK AS DETERMINED BY SECTION SC-M-810 OF THE STANDARD SPECIFICATIONS.

2. SEEDING: THE TEMPORARY SEEDING WILL BE A 15' STRIP ALONG ROADS, IN AREAS WHERE THE BUILDER WILL INSTALL GRASS SOD ONCE THE HOMES ARE COMPLETED, FROM THE BACK OF CURB TO THE EDGE OF THE LOT.

3. GRASS SEED: A HYDROSEED MIXTURE OF SEASONAL TEMPORARY SEEDING (BROWN TOP MILLET), AT THE APPLICATION RATES INDICATED IN OUR CURRENT SEEDING SCHEDULE, ALONG WITH FERTILIZER AND LIME. HAY MULCH IS OPTIONAL, AT THE DEVELOPER'S DISCRETION.

E. SODDING: BEFORE SOD IS LAID, CORRECT SOFT SPOTS AND INEQUALITIES IN GRADE OF PREPARED BED. LAY SO THAT NO VOIDS OCCUR AND TAMP OR ROLL. BRUSH OR RAKE SCREENED TOPSOIL WITH NO LUMPS OR STONES LARGER THAN 1 INCH OVER SODDED AREA. WATER SOD THOROUGHLY. COMPLETE SOD SURFACE TRUE TO FINISHED GRADE, EVEN AND FIRM. FASTEN SOD ON SLOPES STEEPER THAN 1:2, BY WOODEN PINS ABOUT 6 INCHES LONG DRIVEN THROUGH SOD INTO SOIL UNTIL FLUSH WITH TOP OF SOD AT SUFFICIENT INTERVALS TO HOLD SOD.

F. SPRIGGING:

1. SPRIGGING SHALL BE "ROW SPRIGGING" UNLESS OTHERWISE APPROVED BY THE ENGINEER. SPRIG WITHIN ALL AREAS AS CALLED FOR ON THE DRAWINGS.

2. DIG FURROWS AT MINIMUM OF 12 INCHES ON CENTERS AND OPEN TO A DEPTH OF NOT LESS THAN 4 INCHES. OPEN FURROWS AT RIGHT ANGLES TO DIRECTION OF SLOPES OR AS OTHERWISE DIRECTED TO PREVENT WATER EROSION.

3. PLACE 2" SQUARE SPRIGS AT 12" INTERVALS IN EACH FURROW. COVER SPRIGS WITH SOIL AS SOON AS POSSIBLE BUT NOT LATER THAN 30 MINUTES AFTER PLACING IN FURROWS. LEVEL AND ROLL BY APPROVED MECHANICAL OR HAND METHODS TO AN EVEN SURFACE AND TO ESTABLISHED GRADE.

G. MULCHING: WHEN MULCHING IS CALLED FOR, APPROXIMATELY TWO INCHES, LOOSE THICKNESS, OF THE MULCH MATERIAL SHALL THEN BE APPLIED UNIFORMLY OVER THE SEEDED AREA, AND THE MULCH MATERIAL CUT INTO THE SOIL WITH THE EQUIPMENT SPECIFIED, SO AS TO PRODUCE A LOOSE MULCHED THICKNESS OF THREE TO FOUR INCHES. CARE SHALL BE EXERCISED THAT THE MATERIALS ARE NOT CUT TOO DEEPLY INTO THE SOIL WHEN GREEN MULCH IS USED THE GREEN MULCH SHALL BE INCORPORATED INTO THE SOIL NOT LATER THAN TWO DAYS AFTER BEING CUT, AND NO ARTIFICIAL WATERING OF THE MULCH SHALL BE DONE BEFORE IT IS APPLIED.

H. ROLLING: IMMEDIATELY AFTER COMPLETION OF THE SEEDING, THE ENTIRE GRASSED OR MULCHED AREA SHALL BE ROLLED THOROUGHLY WITH THE EQUIPMENT SPECIFIED. AT LEAST TWO TRIPS OVER THE ENTIRE AREA WILL BE REQUIRED.

I. WATERING: THE SEEDED, SPRIGGED AND SODDED AREAS SHALL BE WATERED SO AS TO PROVIDE OPTIMUM GROWTH CONDITIONS FOR THE ESTABLISHMENT OF THE GRASS. IN NO CASE, HOWEVER, SHALL THE PERIOD OF MAINTAINING SUCH MOISTURE BE LESS THAN TWO WEEKS AFTER THE PLANTING. THE CONTRACTOR SHALL NOT RECEIVE PAYMENT FOR GRASSING WHICH IS NOT ADEQUATELY WATERED THROUGH GERMINATION AND ESTABLISHMENT.

3.3 PAYMENT

A. FOR TEMPORARY SEEDING THE PAYMENT IS AS FOLLOWS:

50% AFTER INSTALLATION
50% AFTER 70% COVERAGE

B. FOR PERMANENT SEEDING THE PAYMENT IS AS FOLLOWS:

50% AFTER INSTALLATION
25% AFTER 75% GERMINATION
25% AFTER 85% GERMINATION

3.4 MAINTENANCE

A. MAINTENANCE PERIOD: BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED, AND CONTINUE UNTIL GRASS IS ESTABLISHED AND SHOWS GROWTH. THE CONTRACTOR SHALL BE REQUIRED TO PRODUCE A SATISFACTORY STAND OF PERENNIAL GRASS WHOSE ROOT SYSTEM SHALL BE DEVELOPED SUFFICIENTLY TO SURVIVE DRY PERIODS AND WINTER WEATHER AND BE CAPABLE OF RE-ESTABLISHING IN THE SPRING.

B. MAINTENANCE OPERATIONS: WATER TO KEEP SURFACE SOIL MOIST. REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING, AND SEEDING. REPLACE MULCH ON BANKS WHEN WASHED OR BLOWN AWAY. REPAIR FENCE, MOW TO 2 INCHES AFTER GRASS REACHES 3 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 5-1/2 INCHES. WEED BY LOCAL SPOT APPLICATION OFSELECTIVE HERBICIDE ONLY AFTER FIRST PLANTING SEASON WHEN GRASS IS ESTABLISHED.

POST INSTALLATION

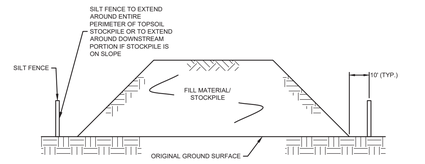
STONE AND HARDWARE FABRIC INSTALLATION

HARDWARE FABRIC AND STONE INLET PROTECTION

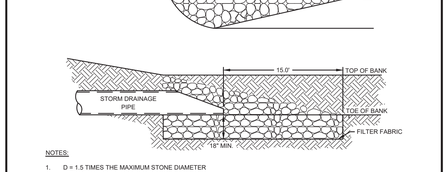
INSTALLATION:
1 HARDWARE FABRIC WITH A MAXIMUM OF 0.5-INCH OPENINGS SHALL BE USED AS THE SUPPORTING MATERIAL AND SHALL BE EXTENDED A MINIMUM 6 INCHES INTO THE GROUND.
2 POSTS SHALL BE 1.25 LB./LINEAR FOOT STEEL POSTS WITH A MINIMUM POST LENGTH OF 36-INCHES. THE HEIGHT OF THE HARDWARE FABRIC ABOVE GRADE SHALL BE A MINIMUM OF 18-INCHES AND SHALL NOT EXCEED 24-INCHES.
3 THE STEEL POSTS SHALL BE SPACED A MAXIMUM OF 3 FEET APART AROUND THE PERIMETER OF THE INLET AND DRIVEN INTO THE GROUND A MINIMUM OF 18-INCHES
4 HEAVY DUTY WIRE TIES SPACED A MAXIMUM OF 6-INCHES APART SHALL BE USED TO ATTACH THE HARDWARE FABRIC MATERIAL TO THE STEEL POSTS.
5 THE STONE SHALL CONSIST OF AGGREGATE NO. 5 WASHED STONE AND SHALL EXTEND TO A MINIMUM HEIGHT OF 12-INCHES AND SHALL NOT EXCEED 24-INCHES.

INSPECTION AND MAINTENANCE:
1 INSPECTIONS SHOULD BE MADE EVERY SEVEN (7) CALENDAR DAYS. ANY NEEDED REPAIRS SHOULD BE HANDLED IMMEDIATELY.
2 SEDIMENT SHOULD BE REMOVED WHEN IT REACHES APPROXIMATELY 1/3 THE HEIGHT OF THE STRUCTURE. IF A SUMP IS USED, SEDIMENT SHOULD BE REMOVED WHEN IT FILLS APPROXIMATELY 1/3 THE DEPTH OF THE HOLE. MAINTAIN THE POOL AREA, ALWAYS PROVIDING ADEQUATE SEDIMENT STORAGE VOLUME FOR THE NEXT STORM.
3 IF THE STONE BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED. SINCE CLEANING OF GRAVEL AT A CONSTRUCTION SITE MAY BE DIFFICULT, AN ALTERNATIVE APPROACH WOULD BE TO REMOVE THE CLOGGED STONE AS FILL AND PUT FRESH STONE AROUND THE INLET.
4 STORM DRAIN INLET PROTECTION STRUCTURES SHOULD BE REMOVED ONLY AFTER THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. REMOVE ALL CONSTRUCTION MATERIAL AND SEDIMENT, AND DISPOSE OF THEM PROPERLY. GRADE THE DISTURBED AREA TO THE ELEVATION OF THE INLET STRUCTURE CREST. STABILIZE ALL BARE AREAS IMMEDIATELY.

TYPE B INLET PROTECTION PHASE I



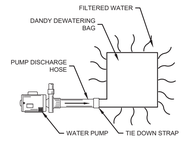
STOCKPILE DETAIL
N.T.S.



OUTLET PROTECTION TO CHANNEL

PLAN SYMBOL





INSTALLATION AND MAINTENANCE GUIDELINES:

INSTALLATION:
PLACE LIFTING STRAPS (NOT INCLUDED) UNDER THE UNIT TO FACILITATE REMOVAL AFTER USE. UNFOLD DANDY DEWATERING BAG ON A STABILIZED AREA OVER DENSE VEGETATION, STRAW, OR GRAVEL (IF AN INCREASED DRAINAGE SURFACE IS NEEDED). INSERT DISCHARGE HOSE FROM PUMP INTO DANDY DEWATERING BAG. A MINIMUM OF SIX INCHES (6") AND TIGHTLY SECURE WITH THE ATTACHED STRAP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED. IF USING OPTIONAL ABSORBENTS, PLACE ABSORBENT BOOM INTO THE DANDY DEWATERING BAG , CLIP ABSORBENT BOOM TO TETHER PROVIDED INSIDE THE UNIT.

MAINTENANCE:
REPLACE THE UNIT WHEN 1/2 FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE. IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT WHEN NEAR SAT

SILTSACK ® SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

REGULAR FLOW SILTSACK ®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

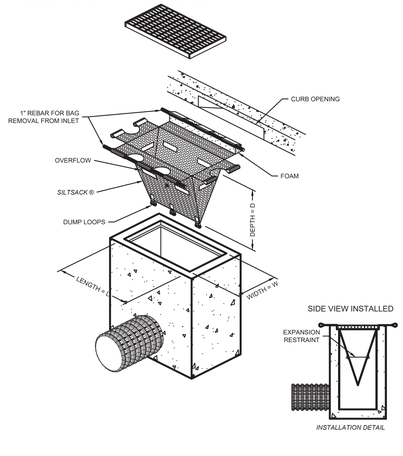
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

HI-FLOW SILTSACK ®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

OIL-ABSORBANT SILTSACK ®
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK ® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK ®, WITH A WOVEN PILLOW INSERT.



INLET PROTECTION PHASE II WITH CURB DEFLECTOR

SILTSACK ® SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

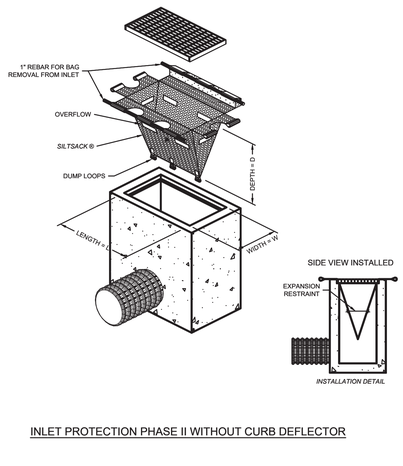
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GRAB TENSILE ELONGATION	ASTM D-4632	20 %
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UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

HI-FLOW SILTSACK ®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
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FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

OIL-ABSORBANT SILTSACK ®
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK ® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK ®, WITH A WOVEN PILLOW INSERT.



INLET PROTECTION PHASE II WITHOUT CURB DEFLECTOR

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I. SITE DESCRIPTION

A. PROJECT DESCRIPTION

A.1.	PROJECT AREA	3.40 ACRES
A.2.	AREA DISTURBED	2.74 ACRES
A.3.	PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION	0.00 %
A.4.	RUNOFF COEFFICIENT BEFORE CONSTRUCTION	71 C/N
A.5.	PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION	40.00 %
A.6.	RUNOFF COEFFICIENT AFTER CONSTRUCTION	80 C/N

B. DESCRIPTION OF CONSTRUCTION ACTIVITY

WORK CONSISTS OF CONSTRUCTION OF A NEW FIRE STATION W/ UTILITIES.

C. RUNOFF DATA

C.1.	SOIL CLASSIFICATIONS:	GoA, Lo, & Ws
C.2.	LAND USE(S):	COMMERCIAL

D. RECEIVING WATERS

D.1.	CLOSEST RECEIVING WATERS:	ROOTY BRANCH
D.2.	ULTIMATE RECEIVING WATERS:	LITTLE PEE DEE RIVER

E. FLOOD

E.1.	FEMA FLOOD ZONE(S):	ZONE "X"
E.2.	FEMA FIRM/PANEL#/DATE MAP(S):	4505102306K EFF. 12/16/2021

II. CONTROL MEASURES

1. EROSION AND SEDIMENT CONTROLS

PRIOR TO START OF CONSTRUCTION, ALL EXTERIOR SILT FENCE WILL BE INSTALLED AS SHOWN ON THE PLANS.

1.1. CLEARING

1.1.1. AS CLEARING IS COMPLETED, ADDITIONAL SILT FENCE WILL BE INSTALLED WHERE NECESSARY, SUCH AS POINTS WHERE FLOWS WILL CONCENTRATE AND AT PERIMETER BOUNDARIES WHERE OFF-SITE RUNOFF ACTIVITIES MAY OCCUR.

1.1.2. INSTALL CONSTRUCTION ENTRANCE(S) BEFORE BEGINNING CLEARING.

1.1.3. CONSTRUCTION DELAYS IN ANY ONE AREA GREATER THAN 14 DAYS PRIOR TO START OF ROUGH GRADING WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.1.4. MAINTAIN EXISTING VEGETATION WHENEVER POSSIBLE AND MINIMIZE THE AREA OF DISTURBANCE. RETAIN AND PROTECT TREES TO ENHANCE FUTURE LANDSCAPING EFFORTS AND REDUCE RAINDROP IMPACT.

1.1.5. INSTALL ALL SEDIMENT CONTROL PRACTICES PRIOR TO ANY UP-SLOPE SOIL DISTURBING ACTIVITIES.

1.1.6. TEMPORARY SEEDING ACTIVITIES TO MINIMIZE THE AREAS DISTURBED AT ONE TIME. THIS WILL ALSO ALLOW COMPLETED AREAS TO BE STABILIZED AND VEGETATED BEFORE DISTURBING ADJACENT SITES. THE NEED FOR TEMPORARY EROSION CONTROL MEASURES MAY BE AVOIDED BY COMPLETING A PHASE AND INSTALLING PERMANENT EROSION CONTROL MEASURES WHEN THE FINAL GRADE IS ATTAINED.

1.1.7. MAINTAIN AND PROTECT ALL NATURAL WATERWAYS. RETAIN AT LEAST A 35-FOOT UNDISTURBED BUFFER OF NATURAL VEGETATION ALONG ALL WATERWAYS TO FILTER OUT SEDIMENT AND OTHER POLLUTANTS. MAINTAIN A 45-FOOT UNDISTURBED BUFFER AROUND SENSITIVE WATERS.

1.1.8. INSTALL SILT FENCE (OR BIO ROLLS/ROCK SOCK PRODUCTS) ON THE DOWN-SLOPE PERIMETER OF ALL DISTURBED AREAS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. SILT FENCE CAN TREAT A MAXIMUM OF 60 LINEAR FEET OF SLOPE LENGTH PER FOOT OF FENCE. INSTALL SILT FENCE IN SHORTER REACHES ON THE CONTOUR WITH EACH END TURNED UP-SLOPE. SWALES AND RIVERLAND AREAS SHOULD ALSO BE PROTECTED WITH SILT FENCE, BIO ROLLS, OR ROCK SOCKS.

1.1.9. IN AREAS OF CONCENTRATED FLOW INSTALL STRAW BALE CHECKS, ROCK CHECK DAMS, TRIANGULAR DIKES, BIO ROLL BLANKETS, OR ROCK SOCKS TO ENSURE RUNOFF DOES NOT TRAP SEDIMENT.

1.1.10. USE TEMPORARY SLOPE DRAINS OR ROCK CHUTES TO MOVE WATER DOWN STEEP SLOPES.

1.1.11. CONSTRUCT SEDIMENT BASINS FOR DRAINAGE AREAS GREATER THAN 10 ACRES

1.2. ROUGH GRADING

1.2.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROUGH GRADING. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.2.2. ALL AREAS SUBJECT TO FUTURE CONSTRUCTION (DRAINAGE, SANITARY SEWER, ROADS, WATER DISTRIBUTION SYSTEMS, OR STORM WATER FACILITIES) SHALL BE GRUBBED WITH A REMOVABLE COVER.

1.2.3. COVER ANY STOCK PILED TOPSOIL WITH PLASTIC (OR OTHER IMPERVIOUS COVERING) OR USE A TEMPORARY SEED MIX. USE STOCKPILED TOPSOIL AS EARTHEN BERMS TO SERVE AS TEMPORARY SEDIMENT BASINS.

1.3. DRAINAGE

1.3.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING DRAINAGE INSTALLATION.

1.3.2. CONSTRUCTION DRAINAGE WILL BE ROUTED THROUGH LINED, WHICH WILL ACT AS SEDIMENT BASINS OR OTHER ACCEPTABLE SEDIMENT BASINS/TRAPS.

1.3.3. STORM DRAIN INLET PROTECTION AS SHOWN ON DETAIL SHEET SHALL BE INSTALLED ON ALL CURB INLETS, STORM DRAIN MANHOLES, JUNCTION BOXES, AND GRATE INLETS.

1.3.4. ALL PIPES LATER THAN 14 DAYS PRIOR TO START OF THE NEXT CONSTRUCTION SEQUENCE WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.3.5. ALL STORM LINES NOT IN STREETS OR OTHER PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 5 DAYS AFTER BACKFILL.

1.4. WASTE DISTRIBUTION SYSTEM INSTALLATION

1.4.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WATER DISTRIBUTION SYSTEM.

1.4.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.5. WASTEWATER COLLECTION SYSTEM INSTALLATION

1.5.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING INSTALLATION OF THE WASTEWATER SYSTEM.

1.5.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.6. CONSTRUCTION OF ROADS

1.6.1. ALL EXISTING CONTROLS WILL BE MAINTAINED DURING ROAD CONSTRUCTION.

1.6.2. DELAYS OF GREATER THAN 14 DAYS PRIOR TO START OF NEXT ACTIVITY WILL MANDATE STABILIZATION PROCEDURES. ACCEPTABLE METHODS OF STABILIZATION INCLUDE MULCHING AND TEMPORARY SEEDING.

1.7. GRASSING

1.7.1. ALL EXISTING CONTROLS WILL BE MAINTAINED UNTIL GRASSING IS ESTABLISHED.

1.7.2. ANY AREAS THAT ERODE OR WHERE GRASS DOES NOT ESTABLISH ITSELF SHALL BE RE-GRADED AND RE-GRASSED.

2. STORM WATER MANAGEMENT

RUNOFF FROM THIS PROJECT WILL DISCHARGE INTO A STORM WATER MANAGEMENT SYSTEM. TREATMENT WILL OCCUR IN STORM WATER DETENTION PONDS.

3. OTHER CONTROLS

3.1. WASTE DISPOSAL

3.1.1. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO ANY RECEIVING WATERS.

3.1.2. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.

3.1.3. THIS PLAN SHALL COMPLY WITH STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

3.1.4. DUST CONTROL ON DISTURBED AREAS - CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE AND HAUL ROUTES. THE PURPOSE OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES, WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

III. MAINTENANCE

1. MAINTENANCE PROGRAM

1.1. THE SITE SUPERINTENDENT, OR HIS/HER REPRESENTATIVE, SHALL MAKE VISUAL INSPECTIONS OF ALL MECHANICAL CONTROLS AND NEWLY STABILIZED AREAS (I.E. SEEDED AND MULCHED AND/OR SODDED AREAS) ON A DAILY BASIS, ESPECIALLY AFTER HEAVY RAINFALL EVENT TO INSURE THAT ALL CONTROLS ARE MAINTAINED AND PROPERLY FUNCTIONING. ANY DAMAGED CONTROLS SHALL BE REPAIRED PRIOR TO THE END OF THE WORK DAY INCLUDING RE-SEEDING AND MULCHING OR RE-SODDING IF NECESSARY

1.2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ALL DRAINAGE SWALES, POCKETS, DEPRESSION, LOW LINES, AND OUTLET DITCHES SHALL DRAIN EFFECTIVELY AT ALL TIMES. SETTLEMENT OR WASHING THAT MAY OCCUR SHALL BE REPAIRED BY THE CONTRACTOR. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN AN EFFECTIVE BARRIER. MAINTAIN THE CONSTRUCTION EXIT IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS. RESEED AND MULCH AREA WHERE SEEDING EMERGENCE IS POOR, OR WHERE EROSION OCCURS. PROTECT FROM EROSION ALL STOCKPILES OF SOIL OR OTHER LOOSE MATERIALS. ALL CONTROLS SHALL BE INSPECTED AFTER ANY DISRUPTION OR DISCLOSURE OF FAILURE. IF WASH OUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. FOLLOW THE CONSTRUCTION SEQUENCE THROUGHOUT THE PROJECT DEVELOPMENT. WHEN CHANGES IN CONSTRUCTION ACTIVITIES ARE NEEDED, AMEND THE SEQUENCE SCHEDULE IN ACCURATE TO MAINTAIN MANAGEMENT CONTROL. IF MAJOR CHANGES ARE NECESSARY, SEND A COPY OF THE MODIFIED SCHEDULE TO THE ENGINEER, SEDIMENT AND EROSION CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED.

2. SILT FENCE

SILT FENCES WILL BE MONITORED DURING CONSTRUCTION. ANY SILT FENCE WHICH IS NOT FUNCTIONING PROPERLY WILL BE REPAIRED OR REPLACED. CLEAN OUT THE SILT FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE OR REPLACE WITH FUNCTIONAL SILT FENCE WITHIN 24 HOURS. USE OF HOSES AND WATER TO FLUSH THE SEDIMENT INTO THE STORM INLETS IS UNACCEPTABLE.

3. SEDIMENTATION BASINS

SEDIMENTATION BASINS WHICH ARE AT 50% USED CAPACITY OR APPROACHING SUCH CAPACITY SHALL BE RE-EXCAVATED TO ORIGINAL DIMENSIONS AND THE SILT PROPERLY DISPOSED OF.

4. SEDIMENT LOGS/ROLLS

SEDIMENT LOGS/ROLLS OR OTHER CONTROL MEASURES WHICH BEGIN TO DISINTEGRATE OR FUNCTION INEFFECTIVELY SHALL BE PROMPTLY REPLACED.

5. VEGETATION COVER

ANY VEGETATION COVER SERVING TO STABILIZE DISTURBED SOILS WHICH IT ITSELF DISTURBED SHALL IMMEDIATELY BE REPLACED.

6. CONSTRUCTION ENTRANCE

MAINTAIN ROCK CONSTRUCTION ENTRANCE AND CLEAN ADJACENT ROADS OF ANY MUD TRACKED ONTO THEM.

IV. INSPECTIONS

1. QUALIFIED PERSONNEL WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH DURING THE WARRANTY PERIOD.

2. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR CONTROLS ARE INSPECTED, THE INSPECTION SHALL INCLUDE THE RECEIVING WATERS AND SOIL CONDITIONS AT AND NEAR IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

3. A WRITTEN REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSON(NS), MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION ACTIVITY) INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT (IN INCHES) AND WHETHER ANY DISCHARGES OCCURRED DURING THE STORM EVENT, PHYSICAL EVIDENCE OBSERVED INDICATIVE OF CONTACT OF POLLUTANTS WITH THE SITE, LOCATIONS OF BMP'S THAT NEED MAINTENANCE, LOCATIONS OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, LOCATIONS WHERE ADDITIONAL BMPS ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION, AND AMY CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO SWPPP NECESSARY AND IMPLEMENTATION DATES.

4. THE REPORT SHALL BE MAINTAINED AT LEAST THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED. THE REPORT MUST BE SIGNED AND SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN AND THE NPDES PERMIT REFERENCED ABOVE. THE CONTRACTOR SHALL MAINTAIN THIS REPORT. THE REPORT SHALL BE SUBMITTED TO THE ENGINEER AND OWNER.

V. LONG TERM MAINTENANCE OF DRAINAGE AND STORM WATER MANAGEMENT SYSTEM

THE ROADS AND DRAINAGE SYSTEM WILL BE OWNED AND MAINTAINED BY HORRY COUNTY AFTER CONSTRUCTION IS COMPLETE.

VI. SC DHEC STANDARD NOTES

1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO GRASSING / HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:

2.1. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

2.2. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF SITE INSPECTIONS IDENTIFY BMPS THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE BEFORE THE NEXT STORM EVENT WHENEVER PRACTICAL.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED INTO ANY WATERS OF THE STATE.

5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. RESIDENTIAL, SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 AND SCR100000.

8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS

10. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

11. A COPY OF THE SWPPP, INSPECTION RECORDS AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.

12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

13. MINIMIZE SOIL COMPACTION IN AREAS NOT UNDER PAVEMENTS AND /OR STRUCTURES AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING. WHEEL WASH WATER AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUAL OR BETTER TREATMENT PRIOR TO DISCHARGE.

15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).

16. THE FOLLOWING DISCHARGES ARE PROHIBITED:

16.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;

16.2. WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;

16.3. FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND

16.4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF PERMIT SCR100000 AND/OR SCS WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

VII. EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

1. THE IMPLEMENTATION OF THESE EROSION SEDIMENT CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

3. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE THE SITE.

4. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

5. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A MAJOR STORM EVENT.

6. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING AND PRIOR TO FINAL INSPECTION. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

7. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

8. BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY, THE EXISTING STORM WATER INLET(S) THAT RECEIVING RUNOFF FROM THE PROPOSED WORK AREA SHALL BE PROTECTED. THE TEMPORARY INLET PROTECTION MUST REMAIN IN PLACE UNTIL THE CONS

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FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

INV.: 79.63
EX PIPE 10
24" RCP
INV.: 79.72
INV.: 80.71
EX PIPE 9
18" RCP
INV.: 80.65
INV.: 79.43
EX PIPE 8
18" RCP
INV.: 79.28

POND 1
TOP=85.00
NWL=80.75
BOT=76.00
25 YR HGL=83.19
100 YR HGL=84.02

VOLUME=0.77 AC/FT.
AREA @ TOP=0.23 AC

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

25' SIDE SETBACK &
25' TYPE A LANDSCAPE BUFFER

25' COUNTY ROAD EASEMENT

10' TYPE C
STREETSCAPE BUFFER

60' FRONT SETBACK

HD CONCRETE
ALL HEAVY DUTY (HD) CONCRETE TO HAVE A 28 DAY CURING TIME WITH NO TRAFFIC.

6" C900 CL150 PVC
FIRE WATER LINE
6" 90° BEND
6" 90° BEND

5 LF OF 6" SCH40 PVC
@ 1.96%
114 LF OF 6" SCH40 PVC
@ 1.14%
CAP
INV.: 83.00
INSTALL 84 LF OF 10" CASING
PIPE FOR 6" CARRIER PIPE
SSCO
INV.: 82.90
SSCO 2
INV.: 81.60
SD ASPHALT
PUMP TANK
SEPTIC TANK
INV.: 81.30
8 LF OF 6" SCH40 PVC
@ 3.59%

SANITARY SEWER
REPAIR DRAIN FIELD

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

25' SIDE SETBACK
5' TYPE B
LANDSCAPE BUFFER

SANITARY SEWER
PRIMARY DRAIN FIELD

6" C900 CL150 PVC
FIRE WATER LINE
6" X 4" TEE
FDC
6" 90° BEND
HD CONCRETE
ALL HEAVY DUTY (HD) CONCRETE TO HAVE A 28 DAY CURING TIME WITH NO TRAFFIC.

6" C900 CL150 PVC
FIRE WATER LINE
2" SDR-7
PE TUBING
6" FTV
6" DDCVA BFP IN ABOVE
GROUND HOT BOX
(BY GSWSA)
10' TYPE C
STREETSCAPE BUFFER
1" X 2" ENLARGER
1" DCVA BFP BELOW
GRADE IN VAULT
(BY GSWSA)
NEW FIRE HYDRANT
ASSEMBLY (BY GSWSA)
1" IRRIGATION METER,
SERVICE, & RPPA BFP
(BY GSWSA)
6" TEE
(BY GSWSA)
6" GATE VALVE
1" DOMESTIC METER &
SERVICE (BY GSWSA)
2" WATER SERVICE SPLIT TO
2 - 1" SERVICES (IRR & DOM)
(BY GSWSA)

ALL MARKINGS WITHIN SCDOT R/W SHALL BE APPROVED PERMANENT PAVEMENT MARKINGS PER SECTIONS 626, 626, OR 627 WITHIN THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

249.20'

TAPPING SADDLE WITH
2" GATE VALVE (BY GSWSA)
6" C900 PVC
(BY GSWSA)
10" X 6" TAP AND
VALVE (BY GSWSA)

EXISTING 10" WATER MAIN
(WAS NOT FIELD LOCATED
BY SURVEYOR OR ENGINEER)

SCDOT ASPHALT
SECTION

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

SCDOT CONCRETE
SECTION

EAST BOUND LANE
MEDIAN
WEST BOUND LANE

INV.: 80.66
INV.: 80.65
EX PIPE 3
36" RCP
EX PIPE 2
18" RCP
INV.: 82.87
INV.: 82.42
INV.: 82.79
INV.: 84.13
EX PIPE 5
18" RCP
INV.: 84.20

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

PMH CROFT
ARCHITECTS • ENGINEERS
1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmh@pmhcroft.com

NORTH CAROLINA
REGISTERED
PROFESSIONAL
SURVEYOR
DIAMOND SHORES SURVEYING, LLC
NO: 6642
STATE OF AUTHORIZATION

NORTH CAROLINA
REGISTERED
PROFESSIONAL
ENGINEER
KYLE R NOBLES

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY
SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
UTILITY PLAN

SHEET NO.
C5.1

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(30 ± COUNTY MAINTAINED R/W)

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

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MEDIAN
WEST BOUND LANE

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100 YR HGL=84.02

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N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

N/F
HORRY COUNTY
PIN # 156-12-02-0008
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148,062 SQ. FT.
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EX PIPE 10
24" RCP
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EX PIPE 8
18" RCP
INV.: 79.28
INV.: 82.87
INV.: 82.42
EX PIPE 2
18" RCP
INV.: 82.79
INV.: 80.66
EX PIPE 3
36" RCP
INV.: 80.65
INV.: 84.13
EX PIPE 5
18" RCP
INV.: 84.20

3' CURB TAPER (TYP)
25' SIDE SETBACK & 25' TYPE A LANDSCAPE BUFFER
25' COUNTY ROAD EASEMENT
10' TYPE C STREETSCAPE BUFFER
60' FRONT SETBACK
25' SIDE SETBACK
5' TYPE B LANDSCAPE BUFFER
HD CONCRETE
ALL HEAVY DUTY (HD) CONCRETE TO HAVE A 28 DAY CURING TIME WITH NO TRAFFIC.
TRANSFORMER PAD
DUMPSTER ENCLOSURE
PROPANE TANK PAD
HVAC
6" C900 CL150 PVC FIRE WATER LINE
6" 90° BEND
SD ASPHALT
CAP
INV.: 83.00
SSCO 1
INV.: 82.90
5 LF OF 6" SCH40 PVC @ 1.96%
114 LF OF 6" SCH40 PVC @ 1.14%
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SSCO 2
INV.: 81.60
PUMP TANK
SEPTIC TANK
INV.: 81.30
8 LF OF 6" SCH40 PVC @ 3.59%
SANITARY SEWER REPAIR DRAIN FIELD
SANITARY SEWER PRIMARY DRAIN FIELD
6" X 4" TEE
FDC
2" SDR-7 PE TUBING
6" DDCVA BFP IN ABOVE GROUND HOT BOX (BY GSWSA)
NEW FIRE HYDRANT ASSEMBLY (BY GSWSA)
6" TEE (BY GSWSA)
6" GATE VALVE
1" X 2" ENLARGER
1" DCVA BFP BELOW GRADE IN VAULT (BY GSWSA)
1" IRRIGATION METER, SERVICE, & RPPA BFP (BY GSWSA)
1" DOMESTIC METER & SERVICE (BY GSWSA)
2" WATER SERVICE SPLIT TO 2 - 1" SERVICES (IRR & DOM) (BY GSWSA)
TAPPING SADDLE WITH 2" GATE VALVE (BY GSWSA)
6" C900 PVC (BY GSWSA)
10" X 6" TAP AND VALVE (BY GSWSA)
EXISTING 10" WATER MAIN (WAS NOT FIELD LOCATED BY SURVEYOR OR ENGINEER)
SCDOT ASPHALT SECTION
SCDOT CONCRETE SECTION
ALL MARKINGS WITHIN SCDOT R/W SHALL BE APPROVED PERMANENT PAVEMENT MARKINGS PER SECTIONS 626, 626, OR 627 WITHIN THE SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
OHE

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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NORTH CAROLINA
DIAMOND SHORES SURVEYING, LLC
NO: 6642
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
REGISTERED
PROFESSIONAL ENGINEER
KYLE R NOBLES

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

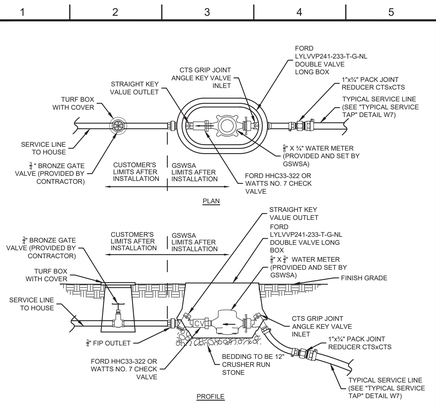
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

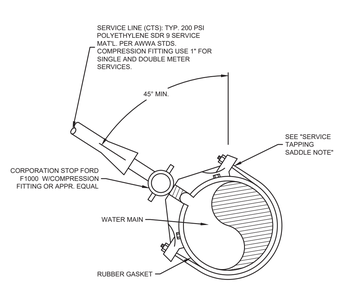
SHEET TITLE
ALTERNATE UTILITY PLAN

SHEET NO.
C5.1A



WATER METER (3/4" - 1")

GSWSA W1

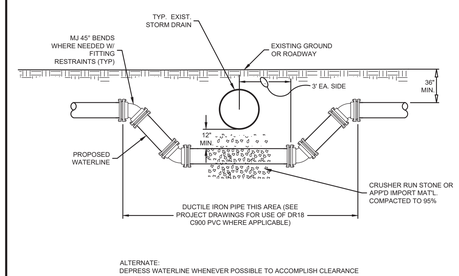


SERVICE TAPPING SADDLE NOTE:

SMITH-BLAIR SINGLE STRAP, NYLON-COATED WITH WIDE SST BANDS NO. 315; OR SMITH-BLAIR DOUBLE STRAP, NYLON-COATED WITH WIDE SST BANDS NO. 317.

SERVICE TAP

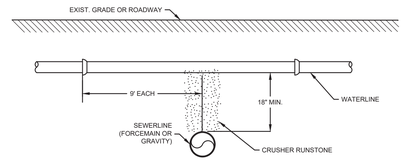
GSWSA W7



ALTERNATE:
DEPRESS WATERLINE WHENEVER POSSIBLE TO ACCOMPLISH CLEARANCE

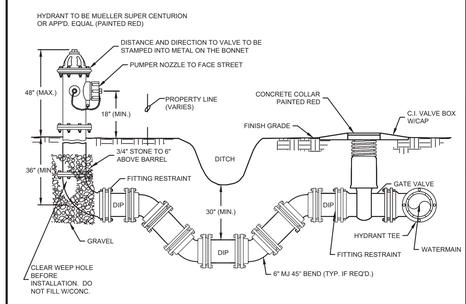
STORM DRAIN CROSSING

GSWSA W8



SEWERLINE CROSSING

GSWSA W9



NOTE:

1. ALL FITTINGS SHALL BE RESTRAINED.
2. DROP SECTION SHOWN WHERE DITCH GRADE REQUIRES THIS CONDITION. LATERAL MAY BE STRAIGHT WITHOUT BENDS IF ELEVATION OF DITCH, WATERLINE, AND FIRE HYDRANT PROVIDES FOR THE 30" MINIMUM CLEARANCE.

FIRE HYDRANT ASSEMBLY

GSWSA W14

NOTE:

MAIN LINE VALVE MARKERS SHALL BE PAINTED BLUE. HYDRANT VALVE MARKERS SHALL BE PAINTED RED.

CONCRETE VALVE MARKER

GSWSA W17

DCDA SIZE	A	B	C	D*	ENCLOSURE MODEL
3"	29¼"	25¾"	3¼"	22½"	45N (BFPRODUCTS)
4"	31¼"	27¾"	4¼"	24½"	LBF4500 (HUBBEL HOT BOX)
6"	35½"	32¾"	5¼"	30½"	56N (BFPRODUCTS)
8"	40¾"	36¼"	6¼"	37½"	LBF6000 (HUBBEL HOT BOX)

*INDICATES NOMINAL DIMENSIONS WITH OSY GATE VALVE (FULL OPEN POSITION)

DOUBLE CHECK VALVE DETECTOR ASSEMBLY (3"-8")
ABOVE GROUND MOUNT WITH ENCLOSURE

GSWSA W22

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NORTH CAROLINA REGISTERED PROFESSIONAL DIAMOND SHORES SURVEYING, LLC NO. 6642 STATE OF AUTHORIZATION

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER KYLE R. NOBLES

OWNER

HORRY COUNTY THE INDEPENDENT REPUBLIC S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

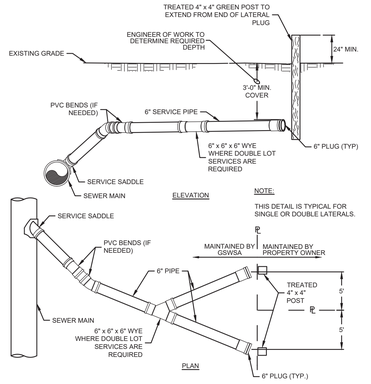
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

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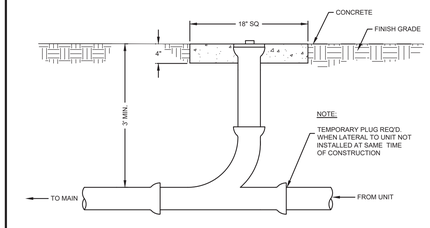
SHEET TITLE
UTILITY DETAILS

SHEET NO.
C5.2



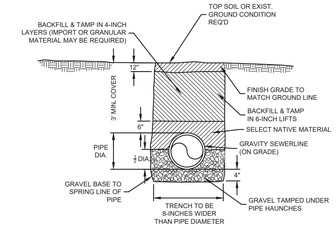
SEWER SERVICE CONNECTION

GSWSA S8



SEWER CLEANOUT

GSWSA S9

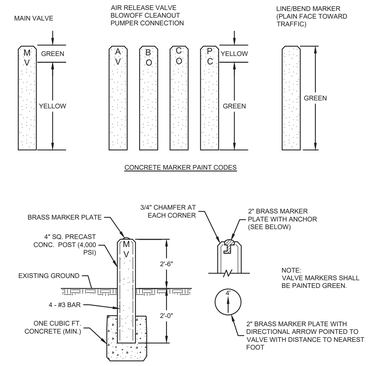


NOTES FOR ALL TRENCH DETAILS

1. TRENCH SHALL BE BACKFILLED AND THOROUGHLY TAMPED WITH SUITABLE MATERIAL TO LEVEL OF STONE. STONE & PAVEMENT TO BE PLACED BY CONTRACTOR WITH LEAST INTERFERENCE WITH TRAFFIC.
2. ALL CONSTRUCTION TO BE INSPECTED AND APPROVED BY LOCAL COUNTY OR STATE ROAD DEPT.
3. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND OBTAINING INSPECTION.
4. GRAVEL BASE SHALL BE 4-INCH MINIMUM, AND EXTEND UP TO SPRING LINE OF PIPE. GRAVEL SHALL NOT EXCEED 3/4-INCH DIAMETER.

TRENCH SECTION IN NATIVE GROUND CONDITION FOR GRAVITY SEWERLINE

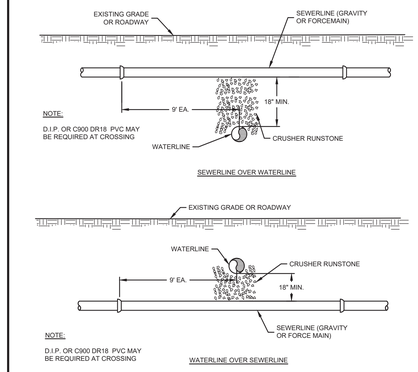
GSWSA S10



CONCRETE MARKERS

(VALVE, ARV, BLOWOFF, CLEANOUT, PUMPER CONNECTION, LINE/BEND)

GSWSA S16



WATERLINE CROSSINGS

GSWSA S17

TRAFFIC-DUTY MINI-MANHOLE COVER FOR SEWER CLEANOUT

GSWSA S22

GRAVITY SEWER IN EXCESS OF 12' DEPTH

(USE OF C900 PIPE & LATERAL CONNECTION)

GSWSA S25

NOTES:

1. SEE "TYPICAL FITTING AND JOINT RESTRAINT" DETAIL FOR VALVE RESTRAINTS.
2. TOP OF VALVE BOX AND COLLAR SHALL BE PAINTED GREEN FOR SEWER FM AND BLUE FOR WATER.
3. EXTENSION STEM WILL BE REQUIRED TO BE WITHIN 2 FT. OF THE SURFACE IF OPERATING NUT IS OVER 5 FT BELOW GRADE. EXTENSIONS SHALL BE PERMANENTLY ATTACHED TO VALVE NUT AND SHALL BE PROVIDED WITH HORIZONTAL SPACERS FOR VERTICAL ALIGNMENT WITHIN THE VALVE BOX.
4. PER GSWSA STANDARDS, MATERIAL APPROVAL THRU THE SUBMITTAL PROCESS ARE REQUIRED PRIOR TO ANY INSTALLATIONS.

VALVE AND VALVE BOX

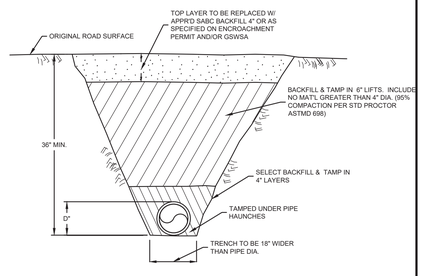
GSWSA WS1

TAPPING SLEEVE (FOR WATERLINE OR SEWER FORCEMAIN)

GSWSA WS2

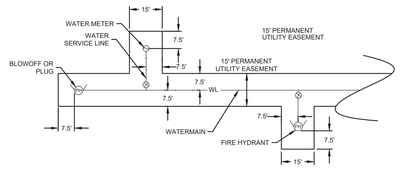
PIPE BEDDING

GSWSA WS11



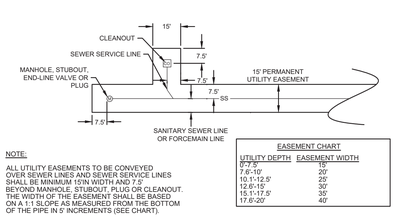
PAVED ROADWAY BEDDING

GSWSA WS12



GSWSA SEWER UTILITY EASEMENT

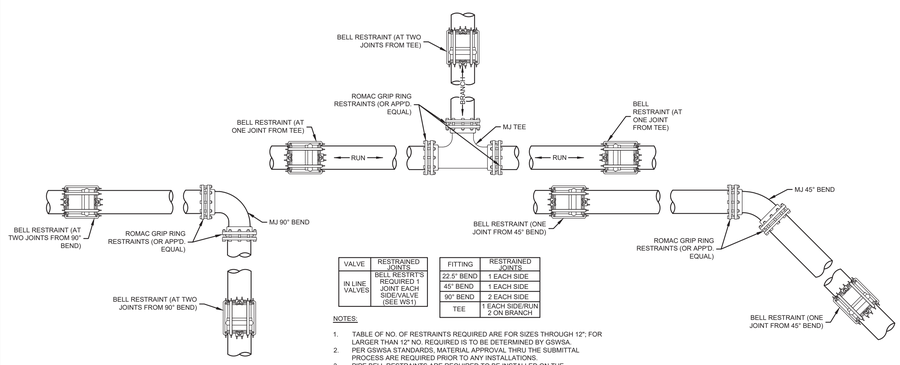
GSWSA WS15



EASEMENT CHART	
UTILITY DEPTH	EASEMENT WIDTH
0'-7.5'	15'
7.6'-10'	20'
10.1'-12.5'	25'
12.6'-15'	30'
15.1'-17.5'	35'
17.6'-20'	40'

GSWSA WATER UTILITY EASEMENT

GSWSA WS15



VALVE	RESTRAINED JOINTS
IN LINE VALVES	BELL RESTR'TS REQUIRED 1 JOINT EACH SIDE/VALVE (SEE WS1)

FITTING	RESTRAINED JOINTS
22.5° BEND	1 EACH SIDE
45° BEND	1 EACH SIDE
90° BEND	2 EACH SIDE
TEE	1 EACH SIDE/RUN 2 ON BRANCH

NOTES:

1. TABLE OF NO. OF RESTRAINTS REQUIRED ARE FOR SIZES THROUGH 12"; FOR LARGER THAN 12" NO. REQUIRED IS TO BE DETERMINED BY GSWSA.
2. PER GSWSA STANDARDS, MATERIAL APPROVAL THRU THE SUBMITTAL PROCESS ARE REQUIRED PRIOR TO ANY INSTALLATIONS.
3. PIPE BELL RESTRAINTS ARE REQUIRED TO BE INSTALLED ON THE TWO JOINTS (MINIMUM) IMMEDIATELY FOLLOWING THE PE/MJ ADAPTERS ON EACH END OF HDPE PIPE.

FITTING AND JOINT RESTRAINT

GSWSA WS3

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NORTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — SEAL — DIAMOND SHORES SURVEYING, LLC NO. 6642 — CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — SEAL — TYLER R. NOBLES

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
UTILITY DETAILS

SHEET NO.
C5.3

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STATE OF SOUTH CAROLINA — DIAMOND SHORES SURVEYING, LLC NO: 6642 — CERTIFICATE OF AUTHORIZATION

STATE OF SOUTH CAROLINA — PROFESSIONAL ENGINEER — 41458 — KYLE R NOBLES

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — EST. 1801 — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

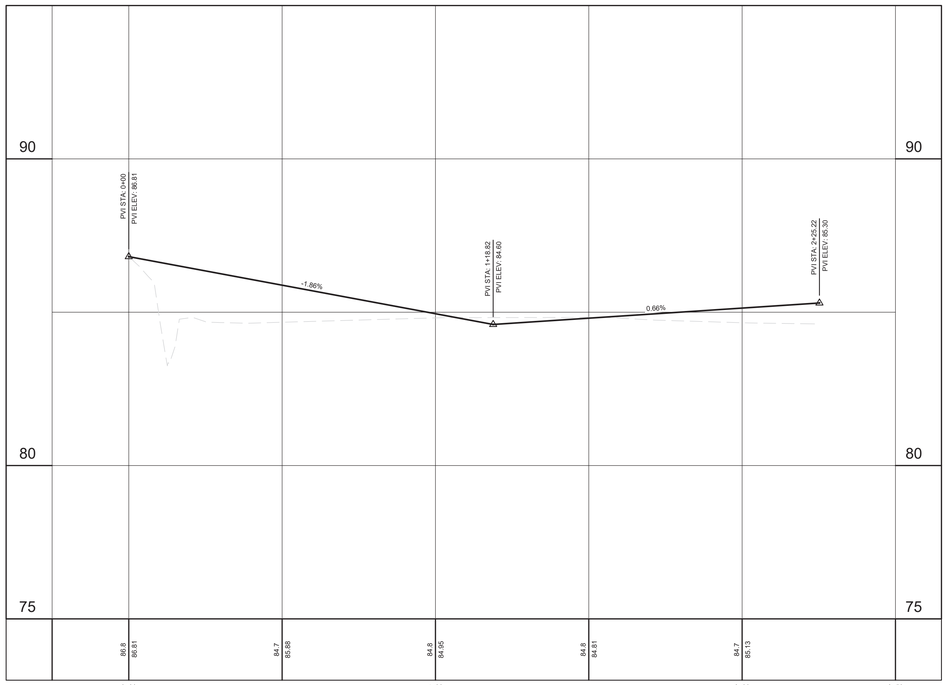
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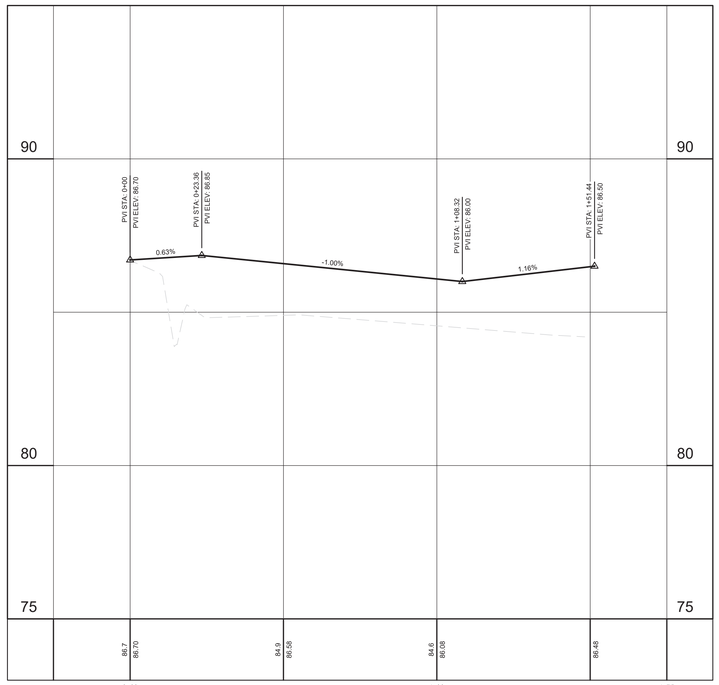
SHEET TITLE
GRADING PLAN

SHEET NO.
C6.1

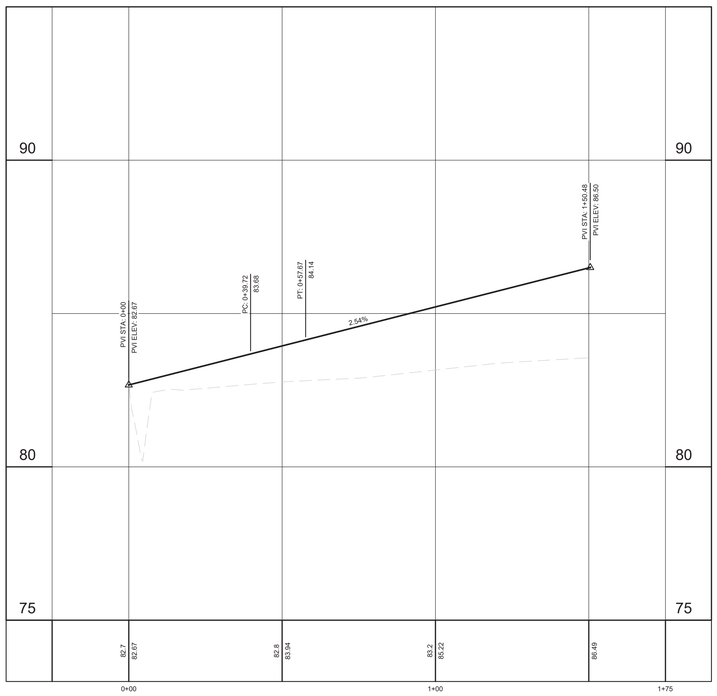
GRAPHIC SCALE
1" = 20'



PARKING LOT
STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 10'
VERT.: 1" = 1'



DRIVEWAY FRONT
STATIONS: -0+25 - 1+75
SCALE: HORZ.: 1" = 10'
VERT.: 1" = 1'



DRIVEWAY REAR
STATIONS: -0+25 - 1+75
SCALE: HORZ.: 1" = 10'
VERT.: 1" = 1'

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TYLER R. NOBLES

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HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA

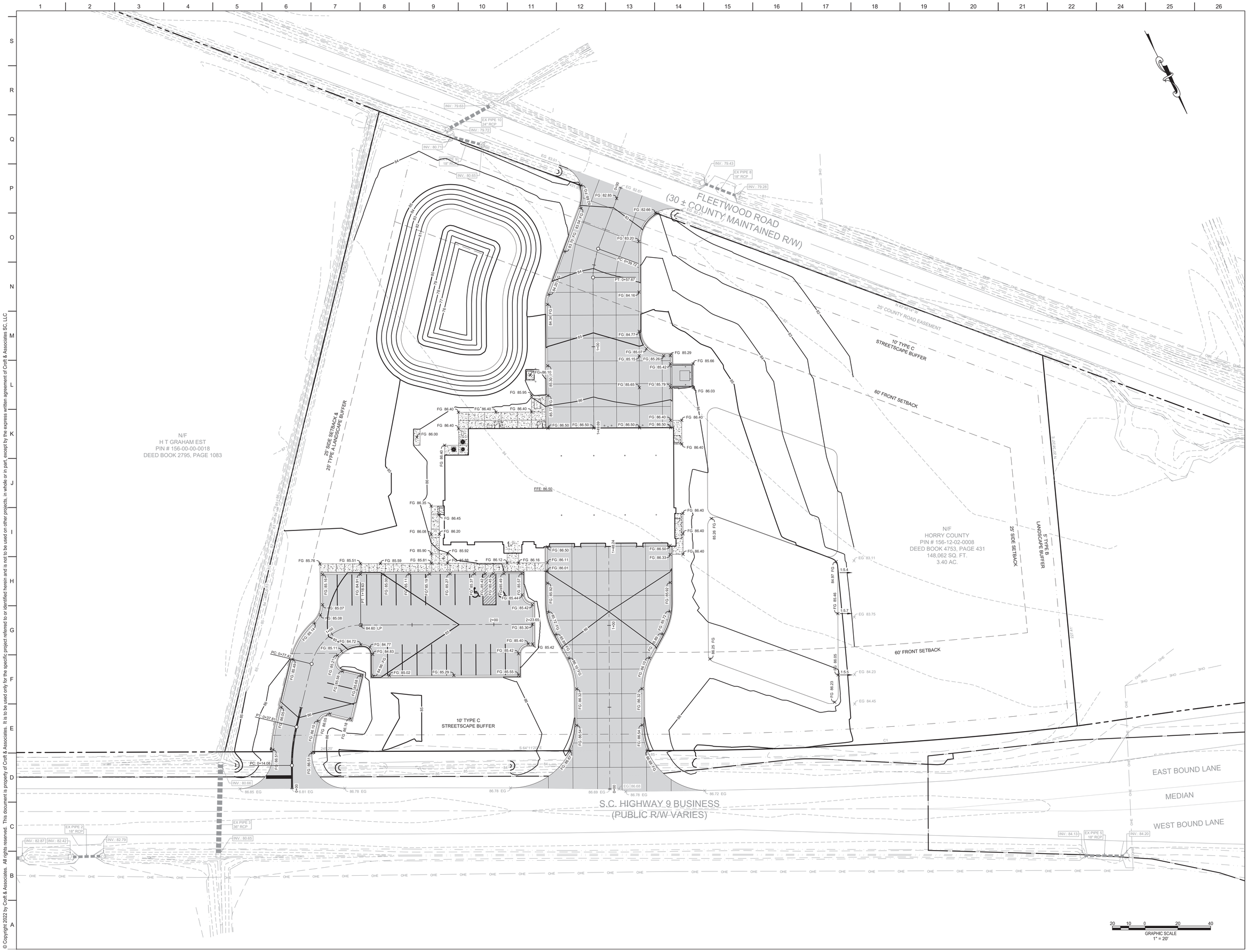
HORRY COUNTY

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SHEET TITLE
GRADING PROFILES

SHEET NO.
C6.2



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STATE OF SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
DIAMOND SHORES SURVEYING, LLC
NO: 6642

STATE OF SOUTH CAROLINA
REGISTERED LANDSCAPE ARCHITECT
EXPIRES 2025
KYLE R. NOBLES

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
1801
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

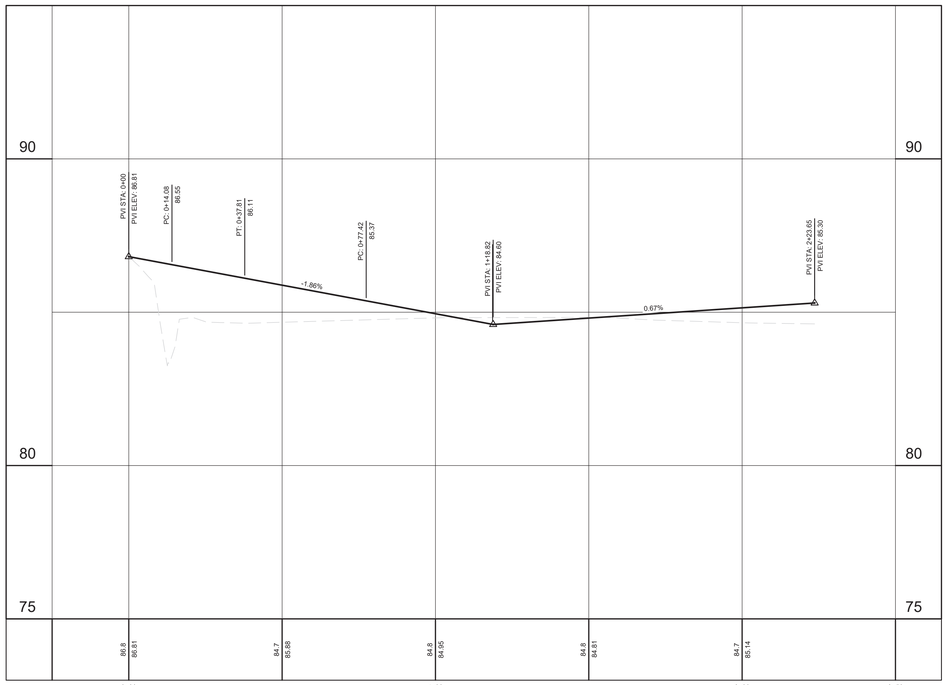
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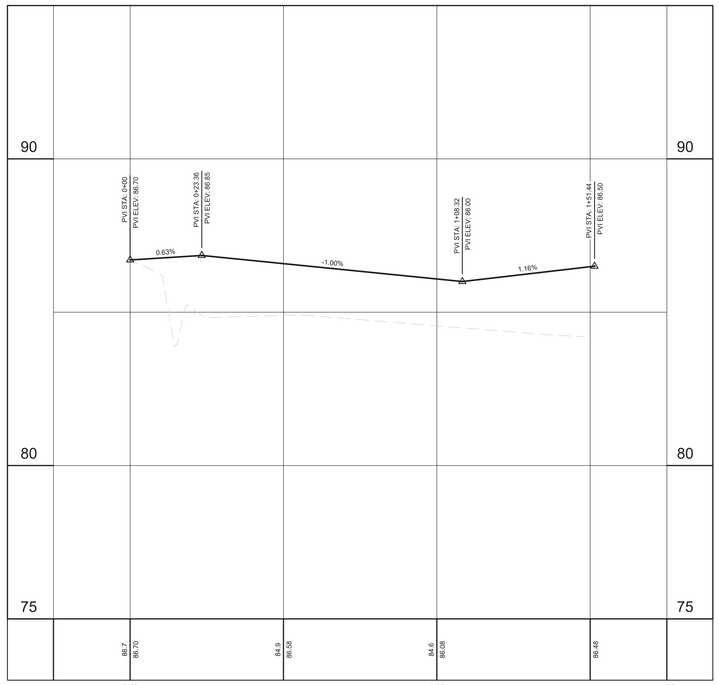
SHEET TITLE
ALTERNATE GRADING PLAN

SHEET NO.
C6.1A



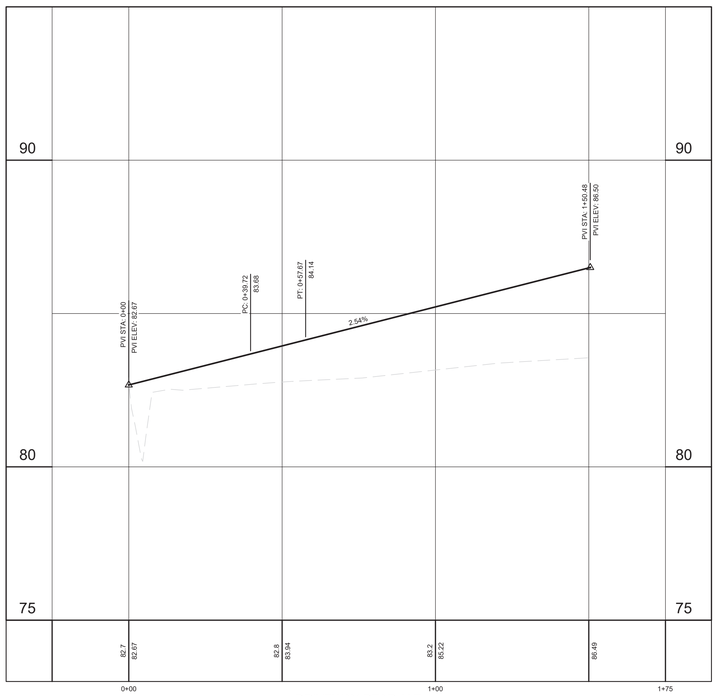
PARKING LOT ALT

STATIONS: -0+25 - 2+50
SCALE: HORZ.: 1" = 10'
VERT.: 1" = 1'



DRIVEWAY FRONT ALT

STATIONS: -0+25 - 1+75
SCALE: HORZ.: 1" = 10'
VERT.: 1" = 1'



DRIVEWAY REAR ALT

STATIONS: -0+25 - 1+75
SCALE: HORZ.: 1" = 10'
VERT.: 1" = 1'

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SOUTH CAROLINA

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SHEET TITLE
ALTERNATE GRADING PROFILES

SHEET NO.
C6.2A

STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
GI-106	RIM = 84.50' 111 INV OUT = 81.35'
GI-107	RIM = 84.60' 103 INV IN = 81.00' 111 INV IN = 81.00' 104 INV OUT = 81.00'
GI-108	RIM = 84.25' 104 INV IN = 80.55' 105 INV OUT = 80.55'
HI-104	RIM = 85.85' 113 INV IN = 81.90' 102 INV OUT = 81.90'
HI-105	RIM = 85.72' 102 INV IN = 81.60' 103 INV OUT = 81.60'
HI-110	RIM = 84.00' 106 INV OUT = 80.50'
HI-111	RIM = 84.00' 106 INV IN = 80.20' 107 INV OUT = 80.20'
HI-114	RIM = 82.77' 108 INV IN = 79.75' 109 INV OUT = 79.75'
HI-115	RIM = 82.76' 109 INV IN = 80.00' 110 INV OUT = 80.00'
JB-118	RIM = 85.72' 113 INV OUT = 82.00'
OCS	RIM = 85.00' 112 INV OUT = 79.75'

STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
BES-100	100 INV OUT = 83.10'
BES-101	100 INV IN = 82.70'
BES-102	101 INV OUT = 82.50'
BES-103	101 INV IN = 82.00'
BES-113	108 INV OUT = 79.65'
BES-116	110 INV IN = 80.45'
PE-109	105 INV IN = 80.00'
PE-112	107 INV IN = 80.00'
PE-117	112 INV IN = 79.75'

PIPE TABLE						
PIPE NAME	SIZE	PIPE MATERIAL	LENGTH	SLOPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE
100	18"	RCP	113.59'	0.35%	BES-100	BES-101
101	18"	RCP	63.56'	0.79%	BES-102	BES-103
102	18"	RCP	57.14'	0.53%	HI-104	HI-105
103	18"	RCP	114.86'	0.52%	HI-105	GI-107
104	18"	RCP	83.24'	0.54%	GI-107	GI-108
105	18"	RCP	98.80'	0.56%	GI-108	PE-109
106	18"	RCP	51.88'	0.58%	HI-110	HI-111
107	18"	RCP	39.01'	0.51%	HI-111	PE-112
108	18"	RCP	18.17'	-0.55%	BES-113	HI-114
109	18"	RCP	42.44'	-0.59%	HI-114	HI-115
110	18"	RCP	19.32'	-2.33%	HI-115	BES-116
111	18"	RCP	63.84'	0.55%	GI-106	GI-107
112	18"	RCP	60.47'	0.00%	OCS	PE-117
113	18"	RCP	17.14'	0.58%	JB-118	HI-104

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

OCS
RIM: 85.00
SUMP: 78.25
INV. OUT: 79.75 (PE-117)

PE-117
INV.: 79.75 (OCS)

BES-116
INV.: 80.45 (HI-115)

HI-115
RIM: 82.76
SUMP: 79.00
INV. IN: 80.00 (HI-114)
INV. OUT: 80.00 (BES-116)

BES-113
INV.: 79.65 (HI-114)

HI-114
RIM: 82.77
SUMP: 78.75
INV. IN: 79.75 (BES-113)
INV. OUT: 79.75 (HI-115)

PE-112
INV.: 80.00 (HI-111)

HI-110
RIM: 84.00
SUMP: 79.50
INV. OUT: 80.50 (HI-111)

HI-111
RIM: 84.00
SUMP: 79.20
INV. IN: 80.20 (HI-110)
INV. OUT: 80.20 (PE-112)

PE-109
INV.: 80.00 (GI-108)

UNDERDRAIN SYSTEM TO BE TIED INTO NEAREST DRAINAGE STRUCTURE

OIL/WATER SEPERATOR TO BE TIED INTO NEAREST DRAINAGE STRUCTURE

OIL/WATER SEPERATOR

STUDOR VENT

FLOOR DRAIN CONNECTION

GI-108
RIM: 84.25
SUMP: 79.55
INV. IN: 80.55 (GI-107)
INV. OUT: 80.55 (PE-109)

GI-107
RIM: 84.60
SUMP: 80.00
INV. IN: 81.00 (HI-105)
INV. IN: 81.00 (GI-106)
INV. OUT: 81.00 (GI-108)

HI-104
RIM: 85.85
SUMP: 80.90
INV. IN: 81.90 (JB-118)
INV. OUT: 81.90 (HI-105)

HI-105
RIM: 85.72
SUMP: 80.60
INV. IN: 81.60 (HI-104)
INV. OUT: 81.60 (GI-107)

JB-118
RIM: 85.72
SUMP: 81.00
INV. OUT: 82.00 (HI-104)

UNDERDRAIN SYSTEM TO BE TIED INTO NEAREST DRAINAGE STRUCTURE

GI-106
RIM: 84.50
SUMP: 80.30
INV. OUT: 81.35 (GI-107)

BES-103
INV.: 82.00 (BES-102)

BES-102
INV.: 82.50 (BES-103)

BES-101
INV.: 82.70 (BES-100)

BES-100
INV.: 83.10 (BES-101)

EX PIPE 10
24" RCP

EX PIPE 8
18" RCP

EX PIPE 3
36" RCP

EX PIPE 2
18" RCP

EX PIPE 5
18" RCP

INV.: 79.63
INV.: 79.72
INV.: 80.65
INV.: 79.43
INV.: 79.28
INV.: 80.66
INV.: 82.87
INV.: 82.42
INV.: 82.79
INV.: 80.65
INV.: 84.13
INV.: 84.20

25' SIDE SETBACK &
25' TYPE A LANDSCAPE BUFFER

10' TYPE C
STREETSCAPE BUFFER

60' FRONT SETBACK

25' COUNTY ROAD EASEMENT

10' TYPE C
STREETSCAPE BUFFER

60' FRONT SETBACK

25' SIDE SETBACK

5' TYPE B
LANDSCAPE BUFFER

EAST BOUND LANE

MEDIAN

WEST BOUND LANE

S 64°11'20" E
240.27'

C1

GRAPHIC SCALE
1" = 20'
20 10 0 20 40

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NORTH CAROLINA
DIAMOND SHORES SURVEYING, LLC
NO: 6642
CERTIFICATE OF AUTHORIZATION

NORTH CAROLINA
PROFESSIONAL ENGINEER
KYLE R. NOBLES
27-408.2022

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

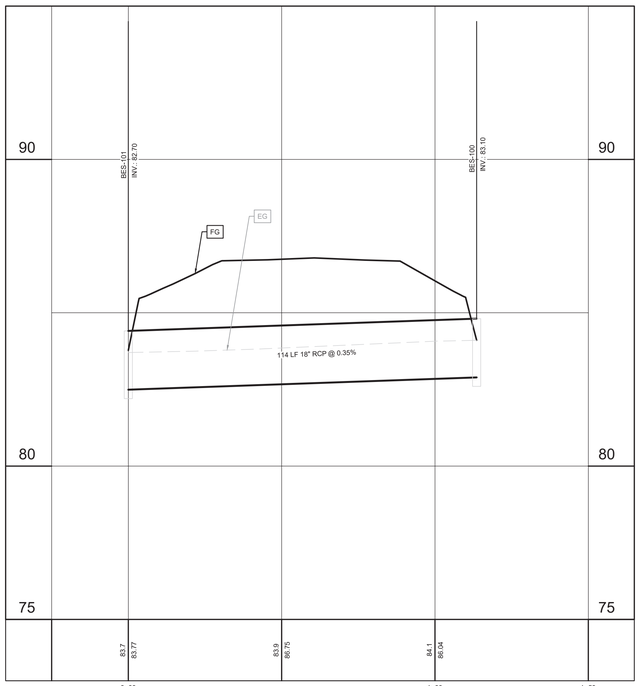
A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

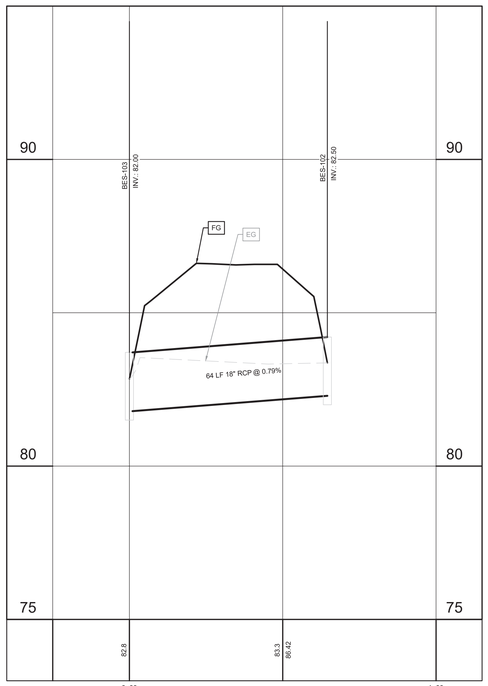
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CHECKED:
DATE: 09-16-24

SHEET TITLE
DRAINAGE PLAN

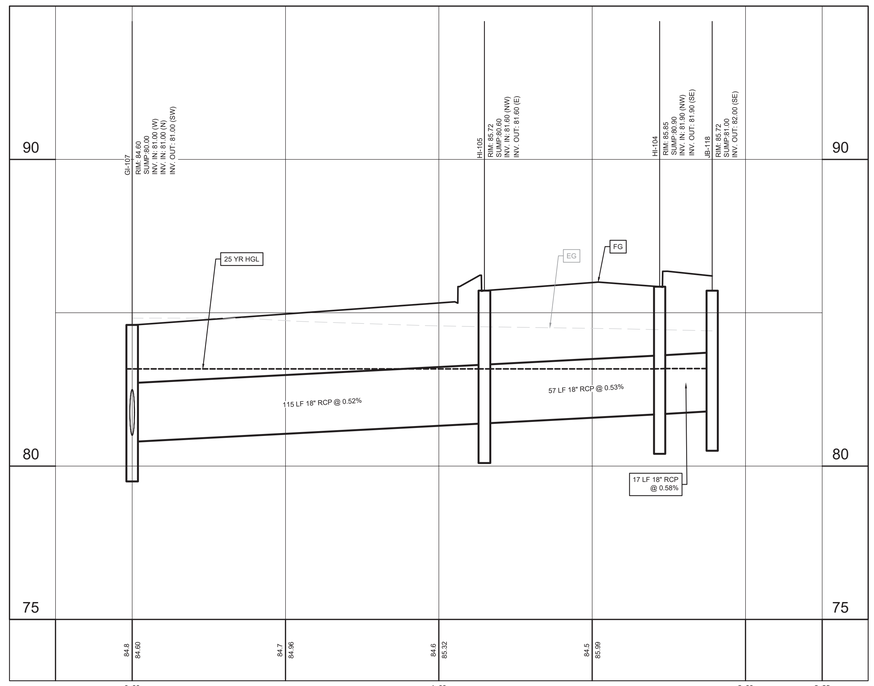
SHEET NO.
C6.3



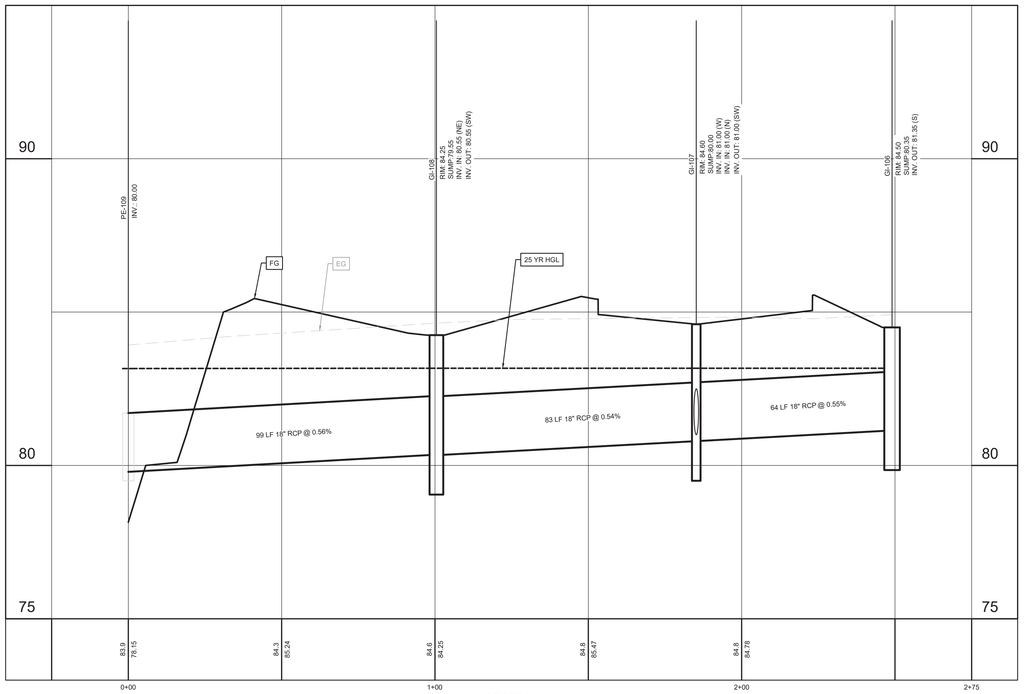
STORM 1
STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



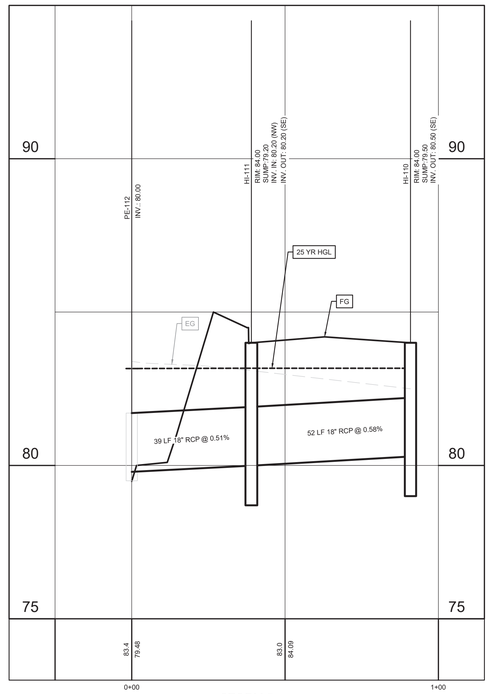
STORM 2
STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



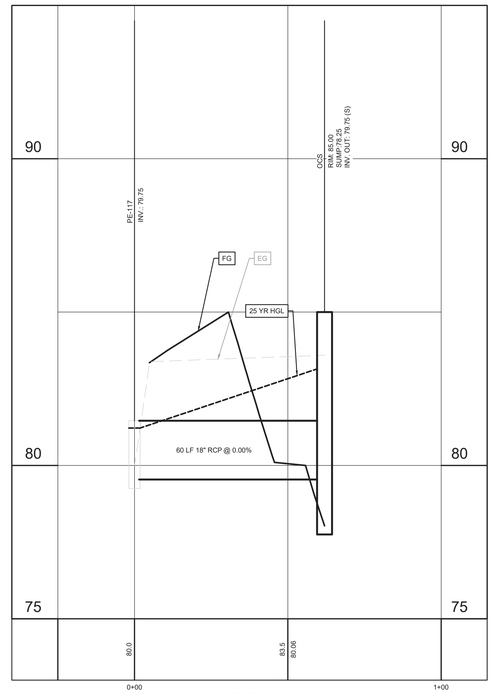
STORM 3
STATIONS: -0+25 - 2+25
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



STORM 4
STATIONS: -0+25 - 2+75
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



STORM 5
STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



STORM 6
STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

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SOUTH CAROLINA
PROFESSIONAL ENGINEER
TYLER R. NOBLES

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

SOUTH CAROLINA

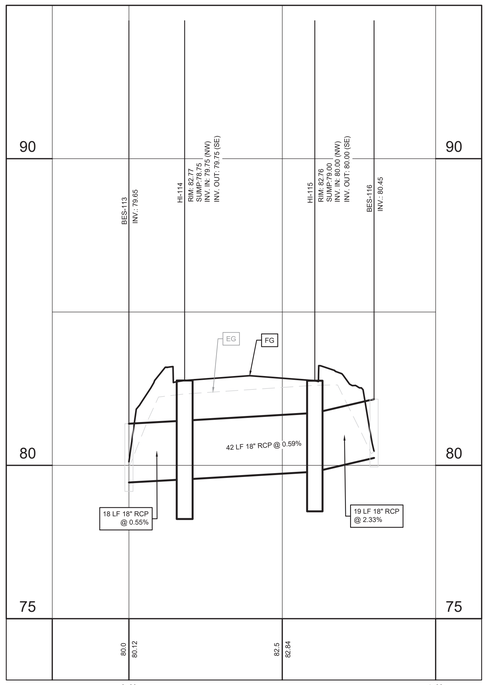
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
DRAINAGE PROFILES

SHEET NO.
C6.4



STORM 7
STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

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A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6

SOUTH CAROLINA

HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
DRAINAGE PROFILES

SHEET NO.
C6.5

STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
GI-106	RIM = 84.50' 111 INV OUT = 81.35'
GI-107	RIM = 84.60' 103 INV IN = 81.00' 111 INV IN = 81.00' 104 INV OUT = 81.00'
GI-108	RIM = 84.25' 104 INV IN = 80.55' 105 INV OUT = 80.55'
HI-104	RIM = 85.72' 102 INV OUT = 82.00'
HI-105	RIM = 85.72' 102 INV IN = 81.60' 103 INV OUT = 81.60'
HI-110	RIM = 84.00' 106 INV OUT = 80.50'
HI-111	RIM = 84.00' 106 INV IN = 80.20' 107 INV OUT = 80.20'
HI-114	RIM = 82.77' 109 INV IN = 79.75' 108 INV OUT = 79.75'
HI-115	RIM = 82.76' 110 INV IN = 80.00' 109 INV OUT = 80.00'
OCS	RIM = 85.00' 112 INV OUT = 79.75'

STRUCTURE TABLE	
STRUCTURE NAME	STRUCTURE DETAILS
BES-100	100 INV OUT = 84.10'
BES-101	100 INV IN = 83.70'
BES-102	101 INV OUT = 82.50'
BES-103	101 INV IN = 82.00'
BES-113	108 INV IN = 79.65'
BES-116	110 INV OUT = 80.45'
PE-109	105 INV IN = 80.00'
PE-112	107 INV IN = 80.00'
PE-117	112 INV IN = 79.75'

PIPE TABLE

PIPE NAME	SIZE	PIPE MATERIAL	LENGTH	SLOPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE
100	18"	RCP	113.58'	0.35%	BES-100	BES-101
101	18"	RCP	63.56'	0.79%	BES-102	BES-103
102	18"	RCP	74.27'	0.54%	HI-104	HI-105
103	18"	RCP	114.86'	0.52%	HI-105	GI-107
104	18"	RCP	83.24'	0.54%	GI-107	GI-108
105	18"	RCP	100.68'	0.55%	GI-108	PE-109
106	18"	RCP	51.59'	0.58%	HI-110	HI-111
107	18"	RCP	39.01'	0.51%	HI-111	PE-112
108	18"	RCP	18.17'	0.55%	HI-114	BES-113
109	18"	RCP	42.44'	0.59%	HI-115	HI-114
110	18"	RCP	19.32'	2.33%	BES-116	HI-115
111	18"	RCP	63.84'	0.55%	GI-106	GI-107
112	18"	RCP	60.61'	0.00%	OCS	PE-117

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

INV.: 79.63
EX PIPE 10
24" RCP
INV.: 79.72
PE-117
INV.: 79.75
INV.: 80.75
INV.: 80.65
BES-116
INV.: 80.45
110
HI-115
RIM: 82.76
SUMP: 79.00
INV. IN: 80.00 (BES-116)
INV. OUT: 80.00 (HI-114)
OCS
RIM: 85.00
SUMP: 78.25
INV. OUT: 79.75 (PE-117)
INV.: 79.43
EX PIPE 8
18" RCP
INV.: 79.28
BES-113
INV.: 79.65
108
HI-114
RIM: 82.77
SUMP: 78.75
INV. IN: 79.75 (HI-115)
INV. OUT: 79.75 (BES-113)
HI-110
RIM: 84.00
SUMP: 79.50
INV. OUT: 80.50 (HI-111)
PE-112
INV.: 80.00
HI-111
RIM: 84.00
SUMP: 79.20
INV. IN: 80.20 (HI-110)
INV. OUT: 80.20 (PE-112)
PE-109
INV.: 80.00
UNDERDRAIN SYSTEM TO BE TIED INTO NEAREST DRAINAGE STRUCTURE
OIL/WATER SEPERATOR TO BE TIED INTO NEAREST DRAINAGE STRUCTURE
OIL/WATER SEPERATOR
STUDOR VENT
FLOOR DRAIN CONNECTION
25' COUNTY ROAD EASEMENT
10' TYPE C STREETSCAPE BUFFER
60' FRONT SETBACK
25' SIDE SETBACK & 25' TYPE A LANDSCAPE BUFFER
N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083
GI-108
RIM: 84.25
SUMP: 79.55
INV. IN: 80.55 (GI-107)
INV. OUT: 80.55 (PE-109)
GI-107
RIM: 84.60
SUMP: 80.00
INV. IN: 81.00 (HI-105)
INV. IN: 81.00 (GI-106)
INV. OUT: 81.00 (GI-108)
HI-104
RIM: 85.72
SUMP: 81.00
INV. OUT: 82.00 (HI-105)
GI-106
RIM: 84.50
SUMP: 80.35
INV. OUT: 81.35 (GI-107)
HI-105
RIM: 85.72
SUMP: 80.60
INV. IN: 81.60 (HI-104)
INV. OUT: 81.60 (GI-107)
UNDERDRAIN SYSTEM TO BE TIED INTO NEAREST DRAINAGE STRUCTURE
10' TYPE C
STREETSCAPE BUFFER
N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.
25' SIDE SETBACK
5' TYPE B LANDSCAPE BUFFER
60' FRONT SETBACK
BES-103
INV.: 82.00
BES-102
INV.: 82.50
BES-101
INV.: 83.70
BES-100
INV.: 84.10
S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)
EAST BOUND LANE
MEDIAN
WEST BOUND LANE
EX PIPE 2
18" RCP
INV.: 82.87
INV.: 82.42
INV.: 82.79
EX PIPE 3
36" RCP
INV.: 80.65
INV.: 84.13
EX PIPE 5
18" RCP
INV.: 84.20
OHE

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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SOUTH CAROLINA
PROFESSIONAL ENGINEER
KYLE R. NOBLES

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

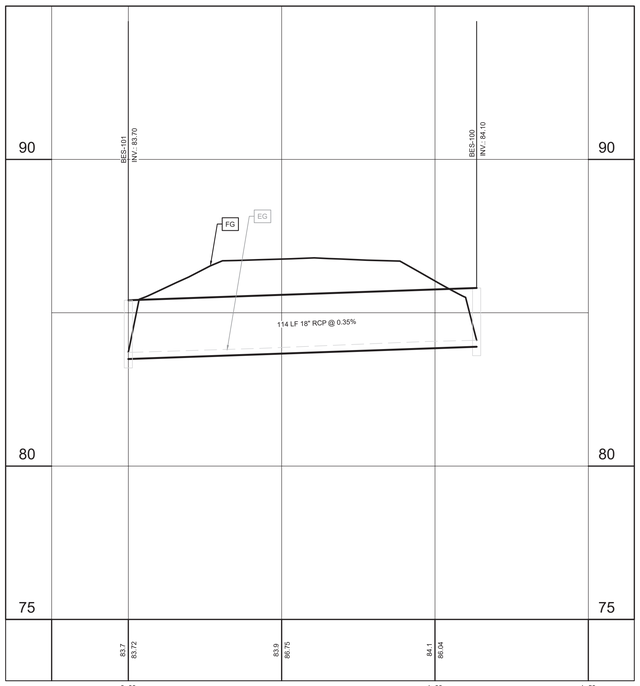
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

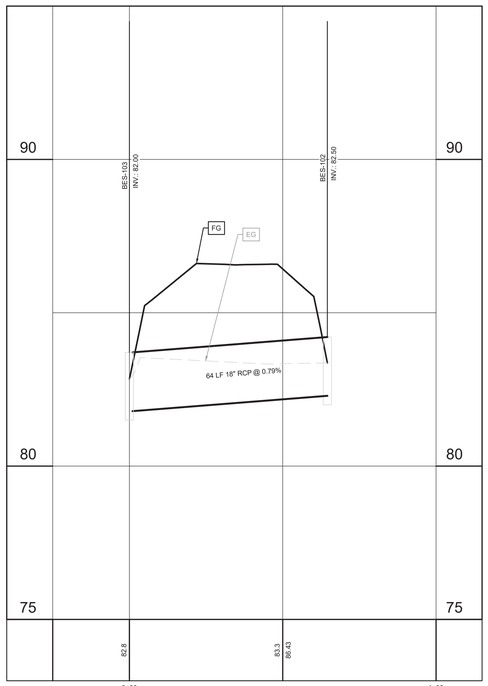
DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
ALTERNATE DRAINAGE PLAN

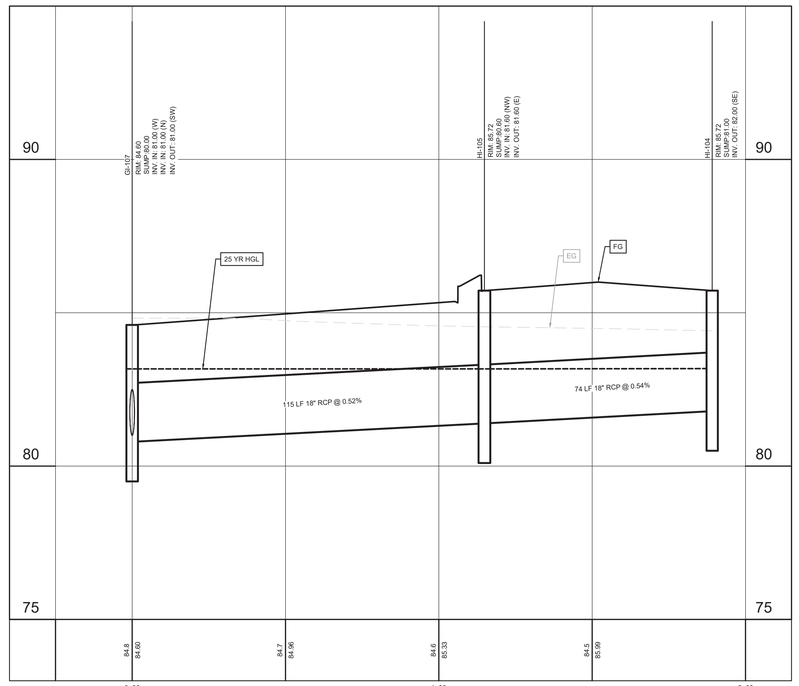
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C6.3A



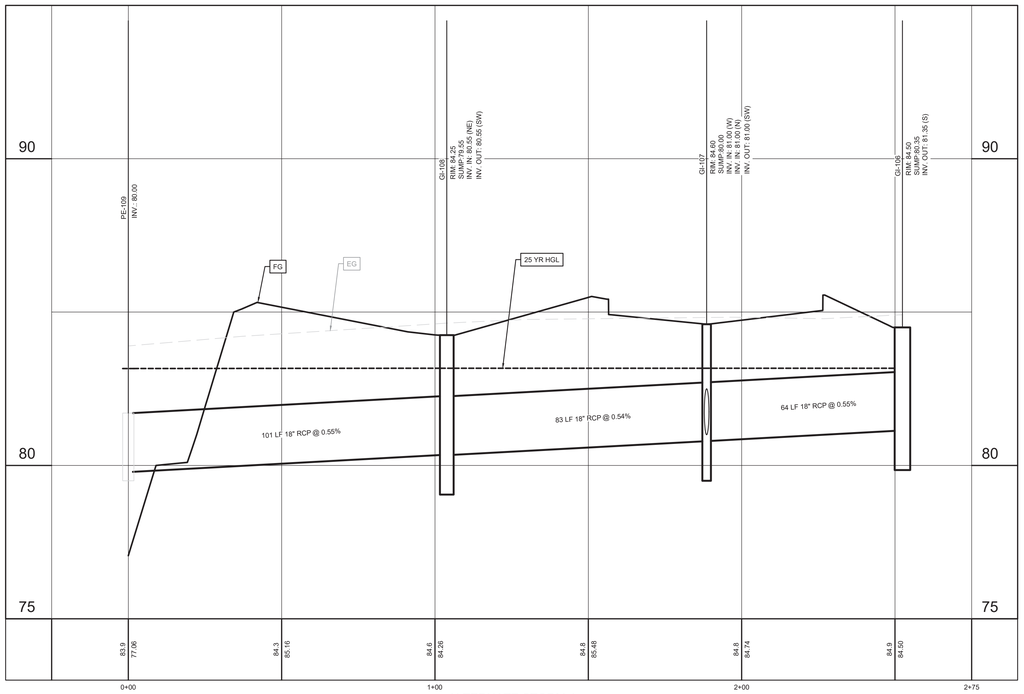
ALTERNATE STORM 1
STATIONS: -0+25 - 1+50
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



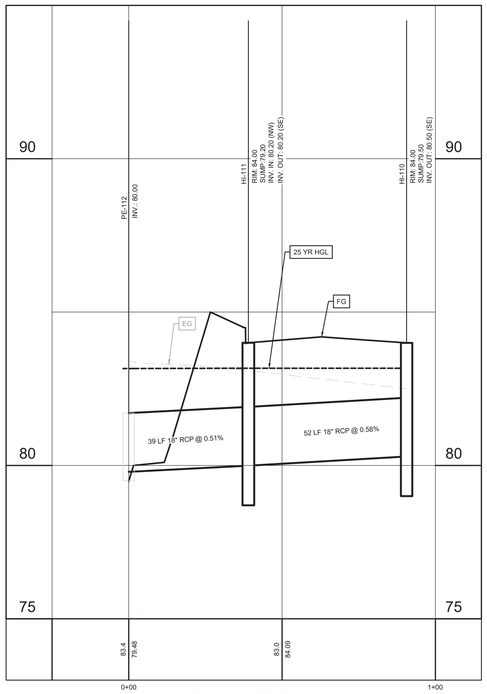
ALTERNATE STORM 2
STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



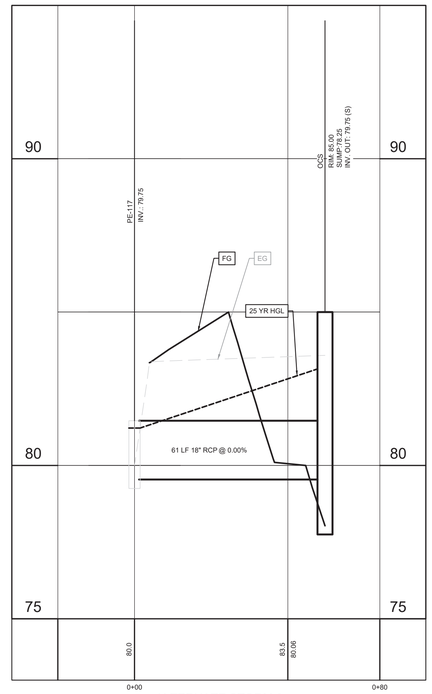
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STATIONS: -0+25 - 2+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



ALTERNATE STORM 4
STATIONS: -0+25 - 2+75
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



ALTERNATE STORM 5
STATIONS: -0+25 - 1+00
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'



ALTERNATE STORM 6
STATIONS: -0+25 - 0+80
SCALE: HORZ.: 1" = 20'
VERT.: 1" = 2'

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S. C.

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A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

SOUTH CAROLINA

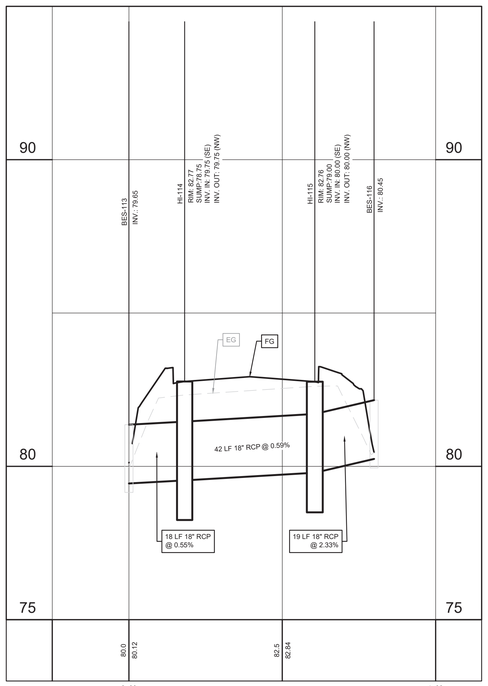
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
ALTERNATE DRAINAGE PROFILES

SHEET NO.
C6.4A



ALTERNATE STORM 7

STATIONS: -0+25 - 1+00

SCALE: HORZ.: 1" = 20'

VERT.: 1" = 2'

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FINKLEA FIRE STATION #6

SOUTH CAROLINA

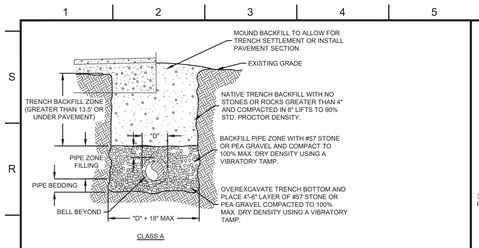
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PROJECT NUMBER
24002

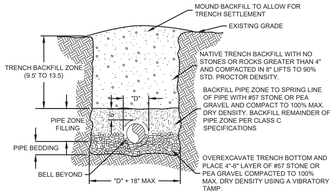
DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
ALTERNATE DRAINAGE PROFILES

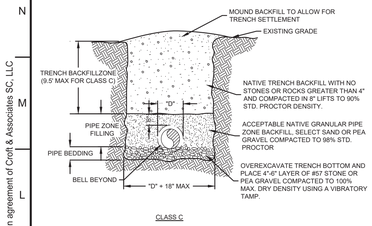
SHEET NO.
C6.5A



CLASS A



CLASS B

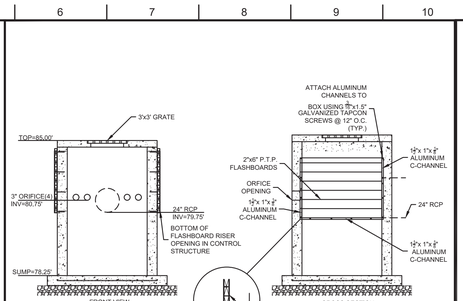


CLASS C

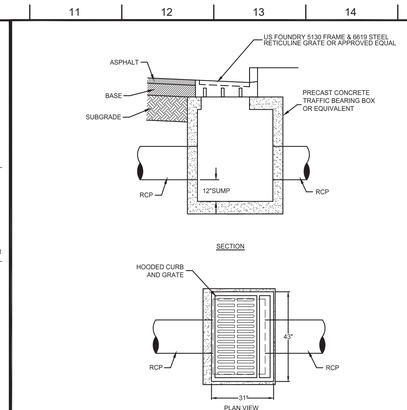
NOTE:

ACCEPTABLE MATERIAL FOR NATIVE PIPE ZONE AND TRENCH BACKFILL SHALL INCLUDE SOILS CLASSIFIED A-1, A-3, A-2-4, AND THE BETTER SOILS UNDER AN A-2-5, ACCORDING TO AASHTO METHOD M145. ALL BACKFILL WILL MEET SCDOT STANDARDS.

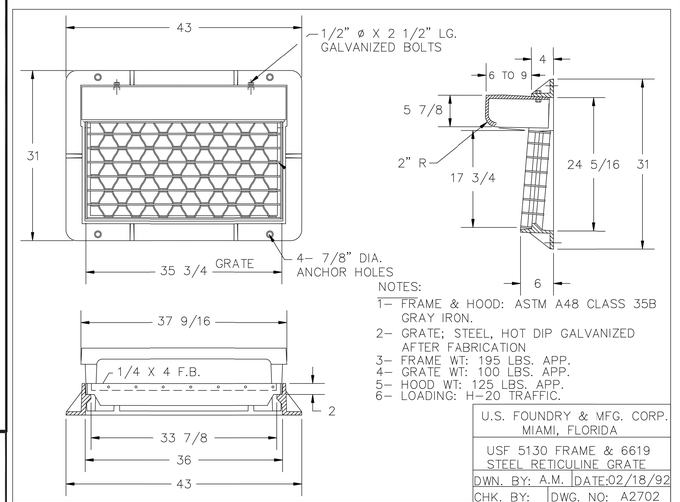
DRAINAGE TRENCHING & BACKFILLING



OCS WITH FLASHBOARD ATTACHMENT

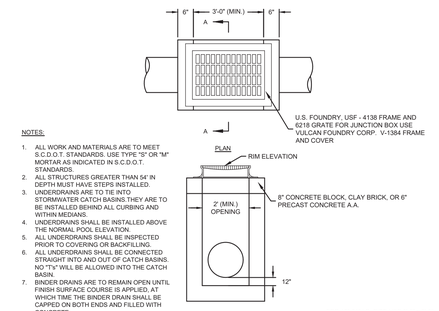


HOODED FRAME CATCH BASIN



NOTES:
1- FRAME & HOOD: ASTM A48 CLASS 35B GRAY IRON.
2- GRATE; STEEL, HOT DIP GALVANIZED AFTER FABRICATION
3- FRAME WT: 195 LBS. APP.
4- GRATE WT: 100 LBS. APP.
5- HOOD WT: 125 LBS. APP.
6- LOADING: H-20 TRAFFIC.

U.S. FOUNDRY & MFG. CORP. MIAMI, FLORIDA	
USF 5130 FRAME & 6619 STEEL RETICULINE GRATE	
DWN. BY: A.M.	DATE:02/18/92
CHK. BY:	DWG. NO: A2702

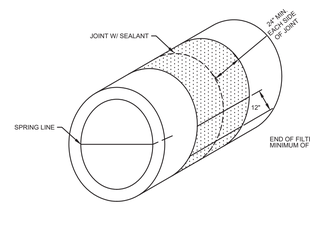


NOTES:

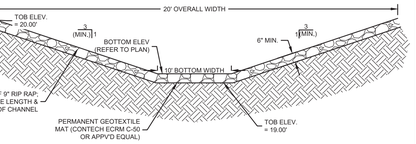
1. ALL WORK AND MATERIALS ARE TO MEET S.C.D.O.T. STANDARDS. USE TYPE "S" OR "M" MORTAR AS INDICATED IN S.C.D.O.T. STANDARDS.
2. ALL STRUCTURES GREATER THAN 54" IN DEPTH MUST HAVE STEPS INSTALLED.
3. UNDERDRAINS ARE TO TIE INTO STORMWATER CATCH BASINS THEY ARE TO BE INSTALLED BEHIND ALL CURBING AND WITHIN MEDIANS.
4. UNDERDRAINS SHALL BE INSTALLED ABOVE THE NORMAL POOL ELEVATION.
5. ALL UNDERDRAINS SHALL BE INSPECTED PRIOR TO COVERING OR BACKFILLING.
6. ALL UNDERDRAINS SHALL BE CONNECTED STRAIGHT INTO AND OUT OF CATCH BASINS. NO "T's" WILL BE ALLOWED INTO THE CATCH BASIN.
7. BINDER DRAINS ARE TO REMAIN OPEN UNTIL FINISH SURFACE COURSE IS APPLIED, AT WHICH TIME THE BINDER DRAIN SHALL BE CAPPED ON BOTH ENDS AND FILLED WITH CONCRETE.

FOR 12"-24" I.D. PIPE USE 3'-0" x 3'-0" BOX. FOR PIPES OVER 24" I.D. MAKE WIDTH OF CB = O.D. PIPE +6" EACH SIDE.

GRATE INLET (GI) / JUNCTION BOX (JB)



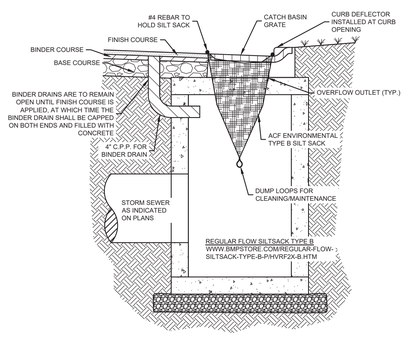
PIPE JOINT SEALING



NOTE:
POND BANK SHALL BE STABALIZED IMMEDIATELY AFTER EXCAVATION IS COMPLETE.

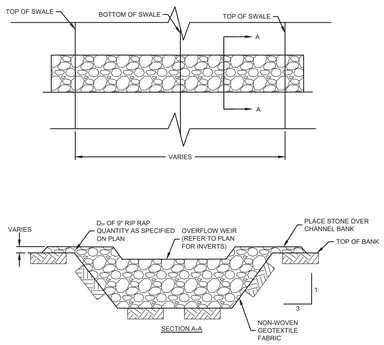
	TOP OF BANK	W.S.E.	BOTTOM ELEV.	25 YR ELEV.	100 YR ELEV.
POND 1	85.00'	80.75'	76.00'	83.15'	83.97'

LITTORAL POND CROSS SECTION



SILT SACK/BINDER DRAIN

RIP-RAP LINED SPILLWAY



GRAVEL CHECK DAM

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SOUTH CAROLINA — DIAMOND SHORES SURVEYING, LLC NO. 6642 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — KYLE R. NOBLES

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

SOUTH CAROLINA

HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: KT | CHECKED:

DATE: 09-16-24

SHEET TITLE
DRAINAGE DETAILS

SHEET NO.
C6.6

1: PLANTING AND INSTALLATIONS SHALL MEET ALL HORRY COUNTY ZONING REGULATION REQUIREMENTS.

2: PLANT MATERIAL QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR REFERENCE ONLY AND THE CONTRACTOR IS RESPONSIBLE FOR THE ACTUAL PLANT MATERIAL COUNTS. DISCREPANCIES BETWEEN QUANTITIES SHOWN ON THE PLANTING PLAN AND THOSE IN THE PLANT LIST SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION. IF CLARIFICATION OF DISCREPANCIES FROM THE LANDSCAPE ARCHITECT IS NOT POSSIBLE, THEN QUANTITIES SHOWN ON THE PLANTING PLAN SHALL TAKE PRECEDENCE.

3: ALL AREAS OF PLANTING, INCLUDING AREAS OF GRASS SEEDING AND SOD, SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND SHALL BE PROVIDED APPROPRIATE SOIL FOR THE PROPOSED PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL ADJUST PH AND /OR SOIL FERTILITY BY UNIFORMLY INCORPORATING REQUIRED SOIL CONDITIONING MATERIALS AT THE RATE AND DEPTH DETERMINED BY THE ANALYSIS OF THE SOIL TEST (AS REQUIRED IN 3.02 AND 3.13 OF THE LANDSCAPING SPECIFICATIONS). EACH SOIL TEST SHALL BE SPECIFIC TO THE PROPOSED PLANT MATERIAL TO BE INSTALLED IN A GIVEN AREA.

.4: NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC,EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL ESTABLISHED. IF NECESSARY, AREAS MUST BE RE-WORKED AND RE-STABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY ,OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO THE SITE.

5: FERTILIZERS AND DETERGENTS: REDUCE THE AMOUNT OF FERTILIZERS AND DETERGENTS AVAILABLE FOR CONTACT WITH STORM WATER.

6: ALL PLANTS SHALL BE MULCHED WITH AN EVENLY THICK LAYER OF CLEAN MULCH IMMEDIATELY AFTER PLANTING. MASS PLANT BEDS SHALL BE COMPLETELY MULCHED TO THE LIMITS OF THE BED AS SHOWN ON THE ON THE PLANS. LIMIT OF MULCHING FOR INDIVIDUAL TREES AND SHRUBS SHALL BE SLIGHTLY BEYOND THE SAUCER BERM. THE AREAS MULCHED SHALL BE TIDY AND CLEAN IN APPEARANCE.

7: ENTIRE SITE TO BE SODDED WITH CENTIPEDE AND OWNER APPROVED SOD.

8: 3 INCHES OF MULCH OR PINE STRAW SHALL BE APPLIED OVER ALL PLANT BEDS.

9: PRE-EMERGENT GRANULAR HERBICIDE TO BE APPLIED TO PLANTING BEDS PRIOR TO MULCHING.

10: ALL AREAS NO SODDED SHOULD BE MULCHED WITH 3" OF TRIPLE HAMMERED HARDWOOD.

11: PROVIDE ALL PLANT MATERIALS AS INDICATED ON THE PLANS. IN THE EVENT OF ANY DISCREPANCIES BETWEEN QUANTITIES OF PLANTS INDICATED ON THE SCHEDULE AND THOSE INDICATED ON THE PLAN. PLAN QUANTITIES SHALL GOVERN.

12: NO SPECIMEN OR PROTECTED LIVE OAK SHALL BE REMOVED ON SITE WITHOUT PRIOR APPROVAL (NO LIVE OAKS EXIST ON SITE).

13: NO PROTECTED OR SPECIMEN TREES ARE BEING REMOVED ON SITE AND THEREFORE NO MITIGATION FEE IS REQUIRED.

14: GINKGO CHOSEN TO PLANT AROUND UTILITIES AS RECOMMENDED BY THE HORRY COUNTY LANDSCAPE MANUAL.

LANDSCAPE SYMBOL LEGEND							
CANOPY TREE		UNDERSTORY TREE		EVERGREEN SHRUB			
	LAUREL OAK EVERGREEN 10' MIN HEIGHT 2" MIN CALIPER TOTAL: 11		WALTERS VIBURNUM EVERGREEN 5' MIN HEIGHT TOTAL: 3		AZALEA 15" MIN HEIGHT TOTAL: 50		GARDENIA 15" MIN HEIGHT TOTAL: 19
	LIVE OAK EVERGREEN 10' MIN HEIGHT 2" MIN CALIPER TOTAL: 7		WAX MYRTLE EVERGREEN 5' MIN HEIGHT TOTAL: 19		AZALEA (TYPE A) 28" MIN HEIGHT TOTAL: 49		KNOCKOUT ROSE 15" MIN HEIGHT TOTAL: 11
	SOUTHERN MAGNOLIA EVERGREEN 10' MIN HEIGHT 2" MIN CALIPER TOTAL: 13		LOBLOLLY BAY / GORDONIA EVERGREEN 5' MIN HEIGHT TOTAL: 6		BOXWOOD 15" MIN HEIGHT TOTAL: 123		SASANQUA CAMELLIA 15" MIN HEIGHT TOTAL: 17
	WILLOW OAK DECIDUOUS 10' MIN HEIGHT 2" MIN CALIPER TOTAL: 3		NELLY STEVENS HOLLY EVERGREEN 5' MIN HEIGHT TOTAL: 19		BOXWOOD (TYPE A) 28" MIN HEIGHT TOTAL: 24		OLEANDER 15" MIN HEIGHT TOTAL: 19
	RED MAPLE DECIDUOUS 10' MIN HEIGHT 2" MIN CALIPER TOTAL: 6		YAUPON HOLLY EVERGREEN 5' MIN HEIGHT TOTAL: 11		BOTTLEBRUSH 15" MIN HEIGHT TOTAL: 11		
			CREPE MYRTLE 'CATAWBA', 'LIPAN', 'YUMA', 'POTOMAC', OR 'OSAGE' VARIETY EVERGREEN 5' MIN HEIGHT TOTAL: 2				

NORTHERN PROPERTY LINE 1:
PROPOSED 109.76 LF - 10' TYPE "C"
LANDSCAPE BUFFER AREA

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

25' COUNTY ROAD EASEMENT

10' TYPE C
STREETSCAPE BUFFER

NORTHERN PROPERTY LINE 2:
PROPOSED 255.66 LF - 10' TYPE "C"
LANDSCAPE BUFFER AREA

60' FRONT SETBACK

WESTERN PROPERTY LINE:
PROPOSED 376.73 LF - 25' TYPE "A"
LANDSCAPE BUFFER AREA

25' SIDE SETBACK
25' TYPE A LANDSCAPE BUFFER

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

EASTERN PROPERTY LINE:
PROPOSED 207.55 LF - 5' TYPE "B"
LANDSCAPE BUFFER AREA

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

25' SIDE SETBACK
5' TYPE B
LANDSCAPE BUFFER

60' FRONT SETBACK

10' TYPE C
STREETSCAPE BUFFER

SOUTHERN PROPERTY LINE 2:
PROPOSED 158.67 LF - 10' TYPE "C"
LANDSCAPE BUFFER AREA

SOUTHERN PROPERTY LINE 1:
PROPOSED 252.26 LF - 10' TYPE "C"
LANDSCAPE BUFFER AREA

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE
MEDIAN
WEST BOUND LANE

OHE

LANDSCAPE BUFFERS

NORTHERN PROPERTY LINE 1:
- Linear Length of Buffer - 109.76'
- Buffer Type: C
- Buffer Width Proposed - 10'
- Buffer Width Provided - 10'
- Required Canopy Trees - 3 (50% evergreen)
- Provided Canopy Trees - 3 (66% evergreen)
- Existing Canopy Trees - N/A
- Required Understory Trees - 4 (50% evergreen)
- Provided Understory Trees - 4 (100% evergreen)
- Existing Understory Trees - N/A
- Required Shrubs - 0 (50% evergreen)
- Provided Shrubs - 0
- Existing Shrubs - N/A

NORTHERN PROPERTY LINE 2:
- Linear Length of Buffer - 255.66'
- Buffer Type: C
- Buffer Width Proposed - 10'
- Buffer Width Provided - 10'
- Required Canopy Trees - 7 (50% evergreen)
- Provided Canopy Trees - 7 (71% evergreen)
- Existing Canopy Trees - N/A
- Required Understory Trees - 8 (50% evergreen)
- Provided Understory Trees - 8 (100% evergreen)
- Existing Understory Trees - N/A
- Required Shrubs - 51 (50% evergreen)
- Provided Shrubs - 51 (100% evergreen)
- Existing Shrubs - N/A

EASTERN PROPERTY LINE:
- Linear Length of Buffer - 207.55'
- Buffer Type: B
- Buffer Width Proposed - 5'
- Buffer Width Provided - 5'
- Required Canopy Trees - 4 (50% evergreen)
- Provided Canopy Trees - 4 (50% evergreen)
- Existing Canopy Trees - N/A
- Required Understory Trees - 4 (50% evergreen)
- Provided Understory Trees - 4 (100% evergreen)
- Existing Understory Trees - N/A
- Required Shrubs - 42 (50% evergreen)
- Provided Shrubs - 42 (83% evergreen)
- Existing Shrubs - N/A

SOUTHERN PROPERTY LINE 1:
- Linear Length of Buffer - 240.91'
- Buffer Type: C
- Buffer Width Proposed - 10'
- Buffer Width Provided - 10'
- Required Canopy Trees - 8 (50% evergreen)
- Provided Canopy Trees - 8 (62.5% evergreen)
- Existing Canopy Trees - N/A
- Required Understory Trees - 7 (50% evergreen)
- Provided Understory Trees - 7 (57% evergreen)
- Existing Understory Trees - N/A
- Required Shrubs - 50 (50% evergreen)
- Provided Shrubs - 50 (100% evergreen)
- Existing Shrubs - N/A

SOUTHERN PROPERTY LINE 2:
- Linear Length of Buffer - 158.67'
- Buffer Type: C
- Buffer Width Proposed - 10'
- Buffer Width Provided - 10'
- Required Canopy Trees - 5 (50% evergreen)
- Provided Canopy Trees - 5 (60% evergreen)
- Existing Canopy Trees - N/A
- Required Understory Trees - 5 (50% evergreen)
- Provided Understory Trees - 5 (100% evergreen)
- Existing Understory Trees - N/A
- Required Shrubs - 32 (50% evergreen)
- Provided Shrubs - 32 (100% evergreen)
- Existing Shrubs - N/A

WESTERN PROPERTY LINE:
- Linear Length of Buffer - 376.73'
- Buffer Type: A
- Buffer Width Proposed - 25'
- Buffer Width Provided - 25'
- Required Canopy Trees - 11 (50% evergreen)
- Provided Canopy Trees - 11 (100% evergreen)
- Existing Canopy Trees - N/A
- Required Understory Trees - 12 (50% evergreen)
- Provided Understory Trees - 12 (50% evergreen)
- Existing Understory Trees - N/A
- Required Shrubs - 75 (50% evergreen)
- Provided Shrubs - 75 (100% evergreen)
- Existing Shrubs - N/A

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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SOUTH CAROLINA
DIAMOND SHORES SURVEYING, LLC NO: 6642
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
PROFESSIONAL ENGINEER
01.03.2022
KYLE R. NOBLES

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
LANDSCAPE PLAN

SHEET NO.
C7.1

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
ⓐⓑⓒⓓⓔⓕⓖⓗ	HUNTER PROS-04 ADJUSTABLE ARC	48

SYMBOL	MANUFACTURER/MODEL	QTY
15	HUNTER PGP-04 1.5	10
30	HUNTER PGP-04 3.0	32

SYMBOL	MANUFACTURER/MODEL	QTY
	DRIP TREE RING	82
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFDE-09-18	1,057 L.F.

SYMBOL	MANUFACTURER/MODEL	QTY
	GATEVALVE (AL SIZE)	1
ZR	ZURN 950XL 1-1/2"	1
C	CONTROLLER	1
RS	RAIN SENSOR	1

IRRIGATION MAINLINE:	PVC CLASS 200 SDR 21 2"	581.4 L.F.
PIPE SLEEVE:	PVC SCHEDULE 40 2"	182.4 L.F.
PIPE SLEEVE:	PVC SCHEDULE 40 4"	125.6 L.F.

ONLY SOD AND PLANT MATERIAL HAVE BEEN COVERED.

NOT FOR CONSTRUCTION THIS DRAWING IS A COVERAGE PLAN FOR BUDGETARY NUMBERS ONLY. THIS IS NOT A DESIGN AND IS NOT TO BE USED FOR INSTALLATION. THIS LAYOUT IS SUBJECT TO CHANGE UPON FINAL LANDSCAPE AND SITE DESIGNS.

FLOW TOTALS
AREA FOR DRIPLINE: 10.6
DRIP EMITTER: 0.9
TURF ROTOR: 177
TURF SPRAY: 96.9
TOTAL: 285.4 GPM

FLOW AVAILABLE 50 GPM

FLEETWOOD ROAD
(30 ± COUNTY MAINTAINED R/W)

25' COUNTY ROAD EASEMENT

60' FRONT SETBACK

25' SIDE SETBACK

N/F
H T GRAHAM EST
PIN # 156-00-00-0018
DEED BOOK 2795, PAGE 1083

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

EXISTING 10" WATER MAIN
(WAS NOT FIELD LOCATED
BY SURVEYOR OR ENGINEER)

S.C. HIGHWAY 9 BUSINESS
(PUBLIC R/W VARIES)

EAST BOUND LANE
MEDIAN
WEST BOUND LANE

GRAPHIC SCALE
1" = 20'

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S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: KT
CHECKED:
DATE: 09-16-24

SHEET TITLE
IRRIGATION PLAN

SHEET NO.
C7.2

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PROJECT OVERVIEW:

THE PROPOSED SANITARY SEWER FOR THE SUBJECT FIRE STATION WILL GRAVITY FLOW TO A NEW 1,000 GALLON SEPTIC TANK WHICH WILL FEED A 1,000 GALLON PUMP CHAMBER WITH EFFLUENT PUMP. EFFLUENT WILL BE PUMPED TO THE ENGINEERED SEPTIC SYSTEM TO BE INSTALLED TO THE NORTH OF THE PROPOSED STRUCTURE AND PROPOSED TANK LOCATION.

REPAIR AREA WILL BE TO THE SOUTH OF THE PROPOSED DRAIN FIELD LOCATION.

THE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH SCDHEC R61-56. THE LTAR PROVIDED FOR THE SOILS IN THE SUBJECT AREA IS 0.30, REFERENCING THE PROVIDED SOILS REPORT BY MR. TYLER SGRO TITLED "RODGERS-24-299 HWY 9" DATED MAY 9, 2024. THE SYSTEM, INSTALLED PER THE ENCLOSED DESIGN, WILL FUNCTION AS INTENDED AND MEET OR EXCEED ALL REQUIREMENTS OF SCDHEC REGULATION 61-56.

GENERAL NOTES:

1. THESE DRAWINGS INDICATE A GENERAL SCOPE OF WORK AND MAY NOT DESCRIBE THE ENTIRE EXTENT OF WORK REQUIRED FOR PROJECT COMPLETION. CONTRACTOR AND OWNER ARE RESPONSIBLE FOR ALL LABOR, MATERIALS, SUPERVISION, UNSPECIFIED MATERIAL SELECTION, ADHERENCE TO SCDHEC AND LOCAL STANDARDS, AND QUALITY CONTROL.
2. CONSTRUCTION SHALL CONFORM TO SCDHEC SPECIFICATIONS
3. CONSTRUCTION SHALL BE PERFORMED BY A LICENSED SEPTIC INSTALLATION CONTRACTOR
4. ALL ELECTRICAL AND PLUMBING WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS
5. OWNER/CONTRACTOR TO PROVIDE ADEQUATE BARRIERS AROUND PERIMETER OF SEPTIC SYSTEM TO PREVENT VEHICLE PARKING AND TRAFFIC.
6. INSTALLATION OF DRAINAGE SWALES, DITCHES, DIVERSION DRAINS, OR RAIN GUTTERS MAY BE REQUIRED TO DIVERT OR INTERCEPT WATER AWAY FROM THE ONSITE WASTEWATER SYSTEM LOCATION. THE SEPTIC TANK(S) AND TILE FIELD AREA SHALL BE BACKFILLED AND SHAPED TO PROMOTE POSITIVE DRAINAGE.
7. TRENCH SUB-GRADE SHALL BE LEVEL ALONG ITS LENGTH.
8. USDA NRCS CLASS I FILL SAND (LESS THAN 10% FINES) SHALL BE USED TO FILL CUT AND AREA SURROUNDING TRENCHES.
9. TRENCH AGGREGATE SHALL BE GRANITE OR APPROVED ALTERNATE TO MEET SCDHEC SPECIFICATIONS.
10. BASE OF TRENCH TO MAINTAIN 6" MINIMUM OFFSET FROM ZOS/SHWT
11. WELL SYSTEMS, IF REQUIRED, SHALL BE INSTALLED MINIMUM OF 75' FROM SEPTIC SYSTEM
12. THE SEPTIC SYSTEM SHALL NOT BE INSTALLED IN WETLANDS; A REVIEW OF THE PROVIDED CIVIL PLANS WETLAND BOUNDARY CONFIRMED THE SYSTEM IS NOT BEING INSTALLED IN WETLANDS (REF. CIVIL DRAWINGS BY KELLY SELLARS, PE). OWNER/CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CHANGE IN SITE CONDITIONS.
13. UPON COMPLETION OF CONSTRUCTION AN AS-BUILT, CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO SCDHEC.
14. CONSTRUCTION SHALL BE OBSERVED BY A REGISTERED PROFESSIONAL ENGINEER.

OPERATION & MAINTENANCE:

SEPTIC TANK: THE SEPTIC TANK SHALL BE PUMPED AT LEAST ONCE EVERY YEAR BY A LICENSED SEPTIC CONTRACTOR. PUMPING SCHEDULE MAY BE ADJUSTED BASED UPON SITE SPECIFIC CONDITIONS.

PUMPING IS NECESSARY WHEN SOLIDS ARE OBSERVED BETWEEN ONE-THIRD AND ONE-HALF THE HEIGHT OF THE TANK. SEPTIC CONTRACTOR SHALL BE CONTACTED TO INSPECT THE SOLIDS LEVEL AND PUMP SOLIDS. INSPECTOR SHALL NOTE THE FOLLOWING AND RECOMMEND PUMPING WHEN THE THE BOTTOM OF THE SCUM LAYER IS WITHIN 6 INCHES OF THE OUTLET TEE AND/OR WHEN THE TOP OF THE SLUDGE LAYER IS WITHIN 12 INCHES OF THE OUTLET TEE.

DRAIN FIELD: DRAIN FIELD SHALL BE INSPECTED ONCE EVERY 6 MONTHS FOR AT LEAST THE FIRST YEAR OF OPERATION BY A LICENSED SEPTIC CONTRACTOR TO ENSURE IT IS FUNCTIONING ADEQUATELY. THE INSPECTION SCHEDULE CAN BE ADJUSTED BY THE LICENSED CONTRACTOR AFTER THE FIRST YEAR, DEPENDENT UPON SITE SPECIFIC CONDITIONS.

PUMP: PUMP SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS AND SHALL BE SERVICED AS NEEDED DURING THE LIFE OF THE PUMP. FRANKLIN PUMPS ARE DESIGNED WITH A 7-10 YEAR LIFE SPAN, DEPENDENT UPON SITE SPECIFIC CONDITIONS, REPLACE AS NECESSARY (BY A QUALIFIED SEPTIC CONTRACTOR).

*ALL INSPECTION AND PUMPING RECORDS SHALL BE MAINTAINED ON SITE BY THE OWNER.

DESIGN SUMMARY:
LTAR= 0.3 PER SOIL CLASSIFICATION REPORT BY MR. TYLER SGRO DATED MAY 9, 2024

ZOS= 12" BELOW EXISTING GRADE (REF BORING LOCATION 4)

USERS= 15 FULL TIME EMPLOYEES PER DAY WITH SHOWERS (PER OWNER ESTIMATE)

DESIGN FLOWRATE= 375 GPD (25 GAL/EMPLOYEE WITH SHOWER/DAY REF. R.61-56 SECT. 501)

TRENCH WIDTH= 3'

TOTAL MIN. REQUIRED SYSTEM LENGTH= 417 LF

DESIGN SYSTEM LENGTH= 504 LF, (7) TRENCHES AT 72 LF

12" INFILTRATOR QUICK 4 PLUS STANDARD CHAMBER TYP LENGTH OF EA. TRENCH
*MUST BE INSTALLED BY INFILTRATOR CERTIFIED TIER 3 INSTALLER

SEPTIC TANK SELECTION= 1,000 GALLON SCDHEC APPROVED SEPTIC TANK.

PUMP CHAMBER SELECTION= 1,000 GALLON SCDHEC APPROVED SEPTIC TANK.

PUMP SELECTION= IF APPLICABLE, $\frac{1}{3}$ HP ZOELLER MODEL M53/M55 SIMPLEX OR APPROVED EQUAL. CONTRACTOR PROPOSED ALTERNATIVES SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL. INSTALL PER MANUFACTURER SPECIFICATIONS.

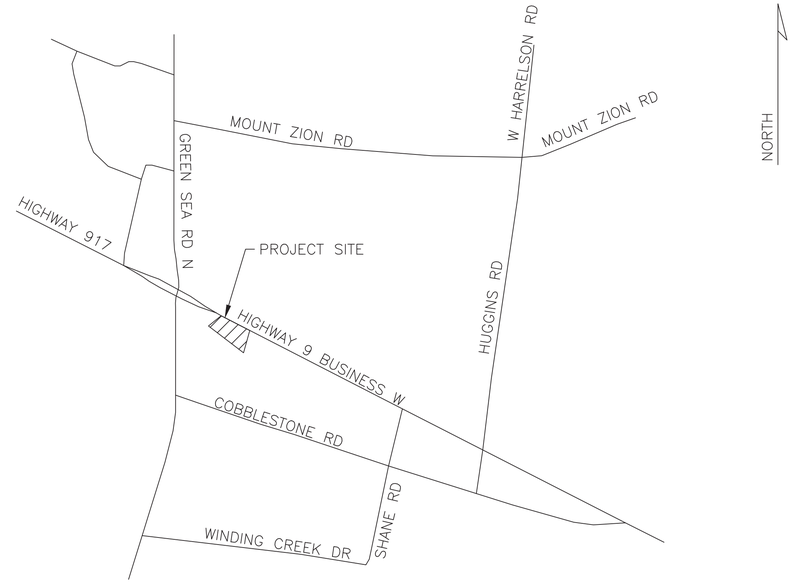
PUMP CHAMBER REQUIRED IF OUTLET OF SEPTIC TANK IS LOWER THAN TOP OF SYSTEM AGGREGATE. CONTRACTOR TO VERIFY ELEVATIONS PRIOR TO CONSTRUCTION

PROJECT NAME: FINKLEA FIRE STATION SEPTIC

PROJECT LOCATION: W. HIGHWAY 9 BUSINESS
LORIS, SC 29569
HORRY COUNTY
TMS: 15600000018.0

WATER SUPPLY: PUBLIC

INSTALLER MUST BE AN SCDHEC TIER 3 INSTALLER AND CONTACT ONSITE SEPTIC ENGINEERING TO SCHEDULE PRE-CONSTRUCTION MEETING AND CONSTRUCTION OBSERVATIONS PRIOR TO INSTALLATION



VICINITY MAP
SCALE N.T.S.

DRAWING INDEX:

SP100	VICINITY MAP, GENERAL NOTES & DESIGN CRITERIA
SP200	SEPTIC SYSTEM SITE PLAN
SP201	SEPTIC SYSTEM DETAILED LAYOUT
SP300	SEPTIC SYSTEM SECTIONS & DETAILS
SP400	SEPTIC TANK & PUMP CONFIGURATION

811
Know what's **below.**
Call before you dig.

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 32005
08/13/2024
CALEB P. RODGERS

SOUTH CAROLINA
CPR ENGINEERING SOLUTIONS, LLC
No. 5170
CERTIFICATE OF AUTHORIZATION

Onsite Septic Engineering
CALEB P. RODGERS, P.E.
CALEB@ONSITESEPTICENGINEERING.COM
WWW.ONSITESEPTICENGINEERING.COM
843-860-3293

REV.	DATE	DESCRIPTION
A	6/11/24	RELEASED FOR PERMIT

CPR | DES. ENG.

FINKLEA FIRE STATION - SEPTIC SYSTEM

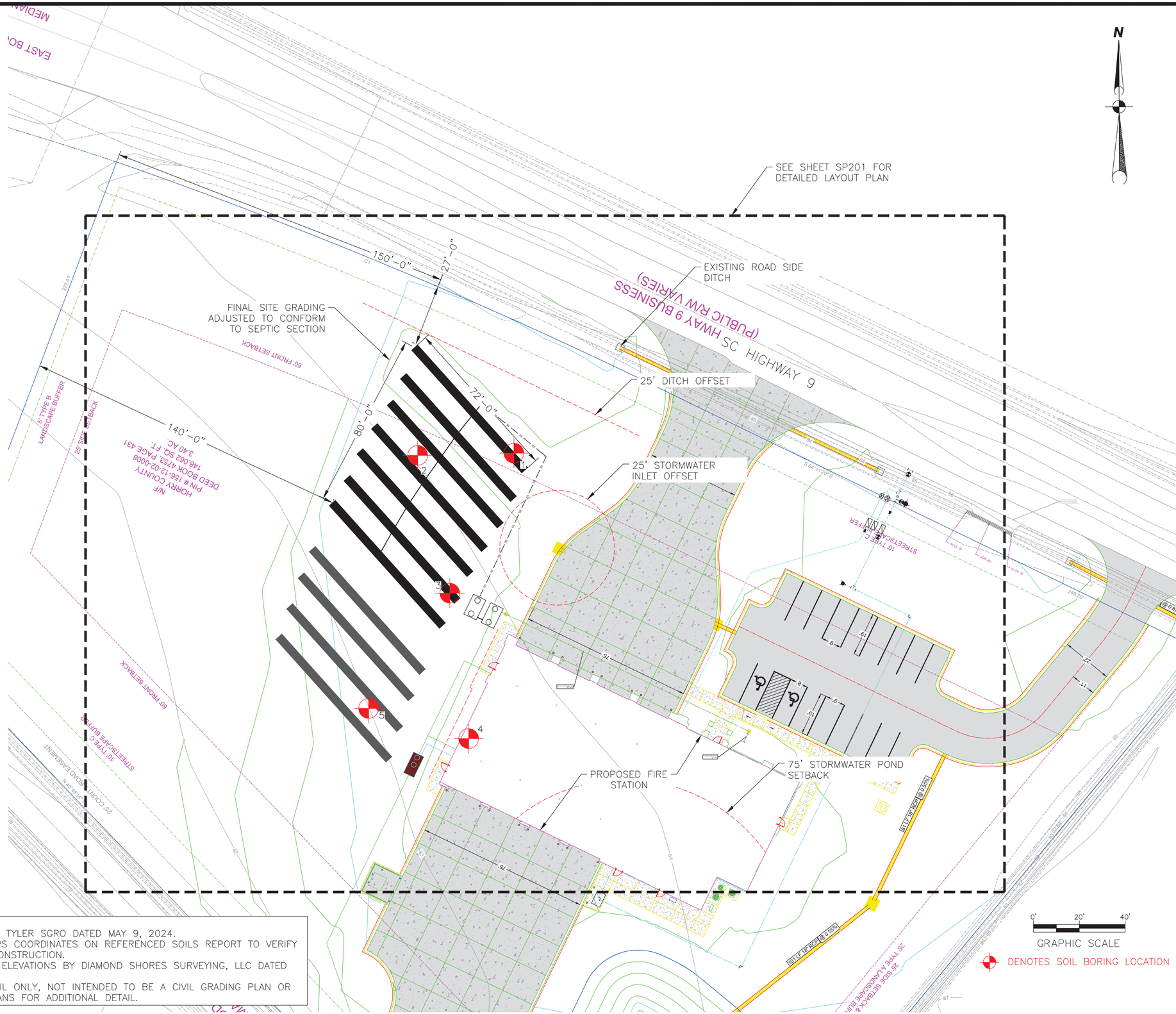
VICINITY MAP, GENERAL NOTES & DESIGN CRITERIA

DESIGN SUPERVISOR CALEB P. RODGERS, P.E.
DES. ENG. CPR | CHECKED JCR
DRAFTER TCB | CHECKED TCB
DATE 06/11/24 | PROJ. NO. 24-299-CM | SCALE AS SHOWN
FILE ONSITE SEPTIC ENGINEERING\PROJECTS\2024\24-299-CM FINKLEA FIRE STATION SEPTIC

DWG. NO.
24-299-CM-1

SHEET
SP100

Know what's **below.**
Call before you dig.



SITE PLAN NOTES:
1. REFERENCES SOILS REPORT BY TYLER SGRO DATED MAY 9, 2024.
2. SEE SOIL BORING LOCATION GPS COORDINATES ON REFERENCED SOILS REPORT TO VERIFY SYSTEM LOCATION PRIOR TO CONSTRUCTION.
3. REFERENCES CIVIL PLANS AND ELEVATIONS BY DIAMOND SHORES SURVEYING, LLC DATED JUNE 5, 2024.
4. FOR SEPTIC INSTALLATION DETAIL ONLY, NOT INTENDED TO BE A CIVIL GRADING PLAN OR CIVIL SITE PLAN, SEE CIVIL PLANS FOR ADDITIONAL DETAIL.

SEPTIC SITE PLAN
SCALE 1"=20'

SOUTH CAROLINA — CALEB P. RODGERS — No. 32008 — 08/13/2024

SOUTH CAROLINA — CPR ENGINEERING SOLUTIONS, LLC — No. 5170 — CERTIFICATE OF AUTHORIZATION

Onsite Septic Engineering
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CALEB@ONSITESEPTICENGINEERING.COM
WWW.ONSITESEPTICENGINEERING.COM
843-860-3293

REV.	DATE	DESCRIPTION	DES. ENG.
A	6/11/24	RELEASED FOR PERMIT	CPR

FINKLEA FIRE STATION – SEPTIC SYSTEM

SEPTIC SITE PLAN

DESIGN SUPERVISOR: CALEB P. RODGERS, P.E.
DES. ENG.: CPR — CHECKED: JCR
DRAFTER: TCB — CHECKED: TCB
DATE: 06/11/24 — PROJ. NO.: 24-299-CM — SCALE: AS SHOWN
FILE: ONSITE SEPTIC ENGINEERING\PROJECTS\2024\24-299-CM\FINKLEA FIRE STATION SEPTIC

DWG. NO.
24-299-CM-2

SHEET
SP200

Know what's **below.**
Call before you dig.

60' FRONT SETBACK

SIDE SETBACK

N/F
HORRY COUNTY
PIN # 156-12-02-0008
DEED BOOK 4753, PAGE 431
148,062 SQ. FT.
3.40 AC.

(18) INFILTRATOR QUICK4 PLUS STANDARD CHAMBERS TYP EA. TRENCH WITH END CAPS TYP BOTH ENDS

FINAL GRADING ADJUSTED TO CONFORM TO SEPTIC SECTION

EXISTING GRADE CONTOURS

PROPOSED GRADE CONTOURS

50% REPAIR AREA

5FT BUFFER (TYP)

72'-0" CHAMBER TRENCH

7FT MIN SPACING

3'-0" TRENCH WIDTH

DISTRIBUTION BOX GRAVITY FEEDING TRENCHES IN SERIAL DISTRIBUTION (ADDITIONAL END CAPS REQD FOR CENTER FED TRENCHES)

1-1/2" DIA. SCH. 40 FORCEMAIN TO DISTRIBUTION BOX FEEDING CHAMBER TRENCHES IN SERIAL DISTRIBUTION

PROPOSED 4" SANITARY SEWER TO CLEAN OUT BY PLUMBER, CONTRACTOR TO VERIFY INVERT PRIOR TO SETTING TANKS

DUCTILE IRON PIPE SLEEVE BELOW TRUCK ENTRANCE

1000 GAL. SEPTIC TANK SEE DETAIL SHEET SP400

1000 GAL. PUMP TANK SEE DETAIL SHEET SP400

5' BUILDING SETBACK

75' STORMWATER POND SETBACK

S.C. HIGHWAY 9 BUSINESS (PUBLIC RW

EXISTING ROADSIDE DITCH

25' ROADSIDE DITCH SETBACK

25' STORMWATER INLET SETBACK

40'

75'

85

N

0' 10' 20'
GRAPHIC SCALE
SCALE 1"=10'

DENOTES SOIL BORING LOCATION

SITE PLAN NOTES:
1. REFERENCES SOILS REPORT BY TYLER SGRO DATED MAY 9, 2024.
2. SEE SOIL BORING LOCATION GPS COORDINATES ON REFERENCED SOILS REPORT TO VERIFY SYSTEM LOCATION PRIOR TO CONSTRUCTION.
3. REFERENCES CIVIL PLANS AND ELEVATIONS BY DIAMOND SHORES SURVEYING, LLC DATED JUNE 5, 2024.
4. FOR SEPTIC INSTALLATION DETAIL ONLY, NOT INTENDED TO BE A CIVIL GRADING PLAN OR CIVIL SITE PLAN, SEE CIVIL PLANS FOR ADDITIONAL DETAIL.

SEPTIC DETAILED LAYOUT PLAN
SCALE 1"=10'

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843-360-3293

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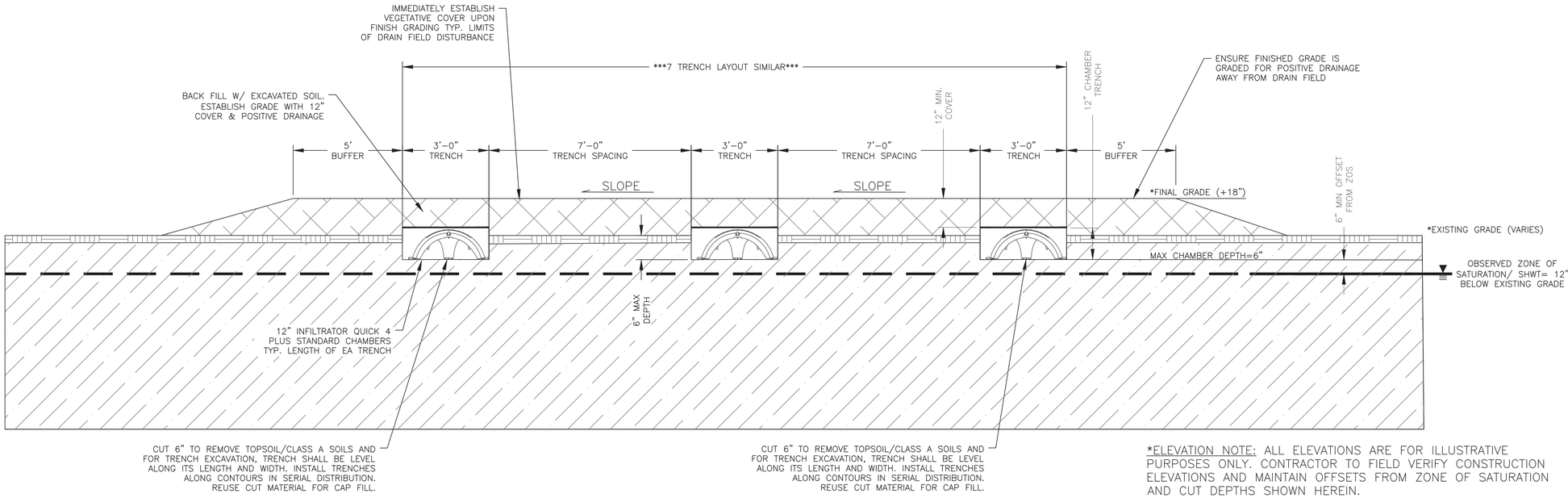
FINKLEA FIRE STATION – SEPTIC SYSTEM

SEPTIC DETAILED LAYOUT PLAN

DESIGN SUPERVISOR: CALEB P. RODGERS, P.E.
DES. ENG.: CPR — CHECKED: JCR
DRAFTER: TCB — CHECKED: TCB
DATE: 06/11/24 — PROJ. NO.: 24-299-CM — SCALE: AS SHOWN
FILE: ONSITE SEPTIC ENGINEERING\PROJECTS\2024\24-299-CM FINKLEA FIRE STATION SEPTIC

DWG. NO.
24-299-CM-3

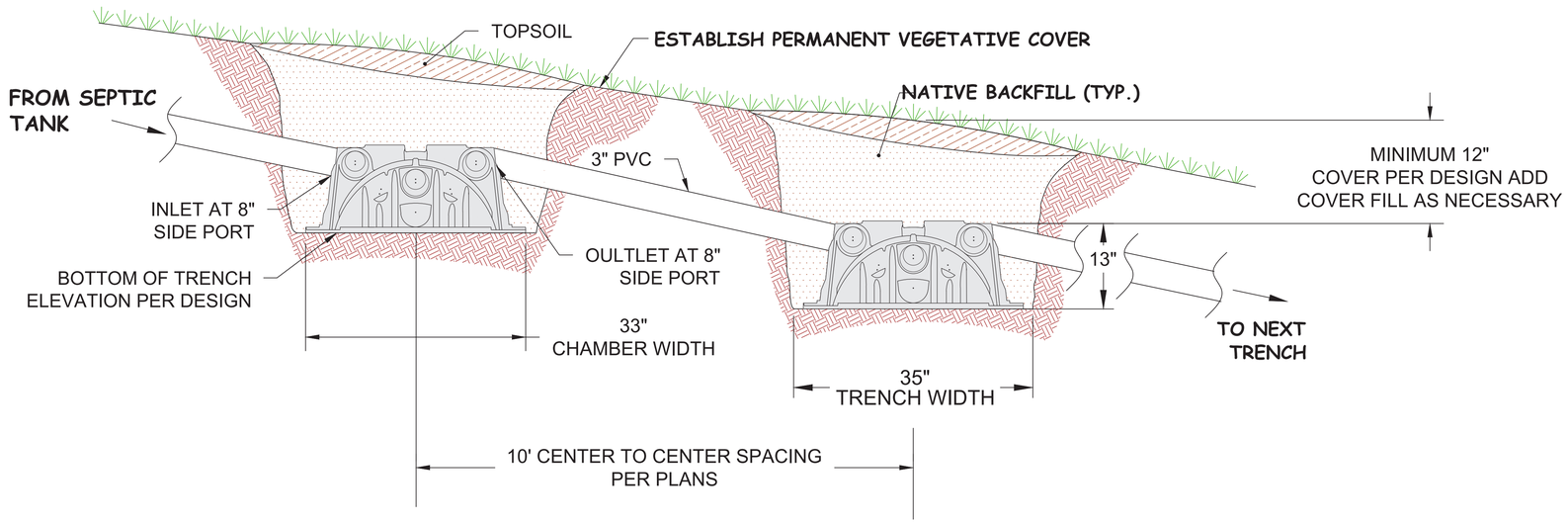
SHEET
SP201



*ELEVATION NOTE: ALL ELEVATIONS ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO FIELD VERIFY CONSTRUCTION ELEVATIONS AND MAINTAIN OFFSETS FROM ZONE OF SATURATION AND CUT DEPTHS SHOWN HEREIN.

6 INCH MAXIMUM TRENCH DEPTH.

SECTION B–B
N.T.S



INFILTRATOR CHAMBER SERIAL DISTRIBUTION DETAIL
SCALE NTS

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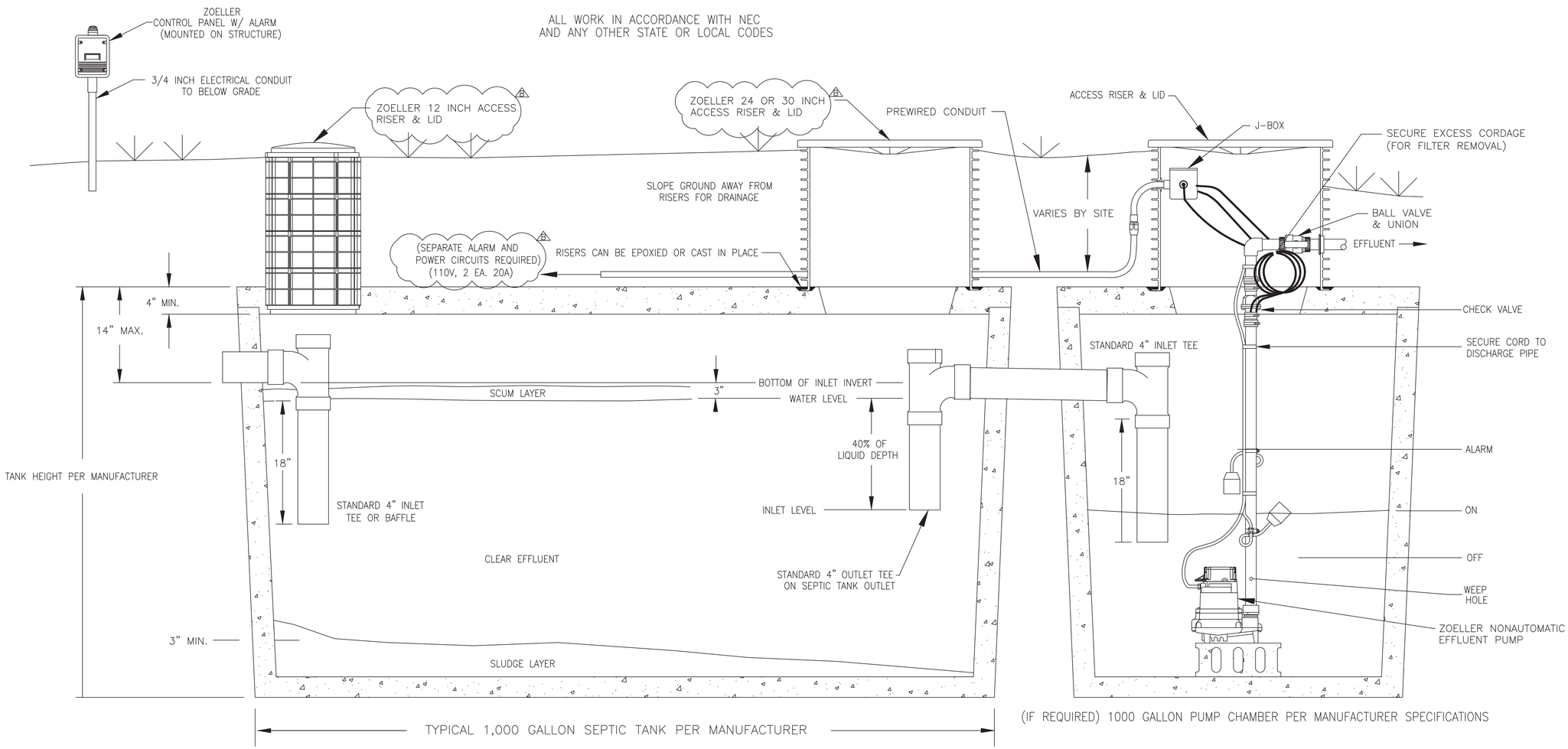
FINKLEA FIRE STATION – SEPTIC SYSTEM

SEPTIC SYSTEM SECTION

DESIGN SUPERVISOR: CALEB P. RODGERS, P.E.
DES. ENG.: CPR — CHECKED: JCR
DRAFTER: TCB — CHECKED: TCB
DATE: 06/11/24 — PROJ. NO: 24-299-CM — SCALE: AS SHOWN
FILE: ONSITE SEPTIC ENGINEERING\PROJECTS\2024\24-299-CM FINKLEA FIRE STATION SEPTIC

DWG. NO.
24-299-CM-4

SHEET
SP300



SEPTIC TANK NOTE: USE APPROVED KNIGHTS OR ROTH SEPTIC & PUMP TANKS PER SPECIFICATIONS (SHEET S100) OR SUBMIT ALTERNATE TO ENGINEER FOR APPROVAL

PUMP NOTES:
-PUMP AND PUMP FLOAT SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS TO ENSURE MINIMUM 4 MIN. RUN TIME.

-PUMP CHAMBER REQUIRED IF OUTLET OF SEPTIC TANK IS LOWER THAN TOP OF SYSTEM AGGREGATE. CONTRACTOR TO VERIFY ELEVATIONS PRIOR TO CONSTRUCTION

SOUTH CAROLINA
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REV.	DATE	DESCRIPTION	DES. ENG.
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B	8/13/24	LIDS REQD/ELEC. INFO	CPR

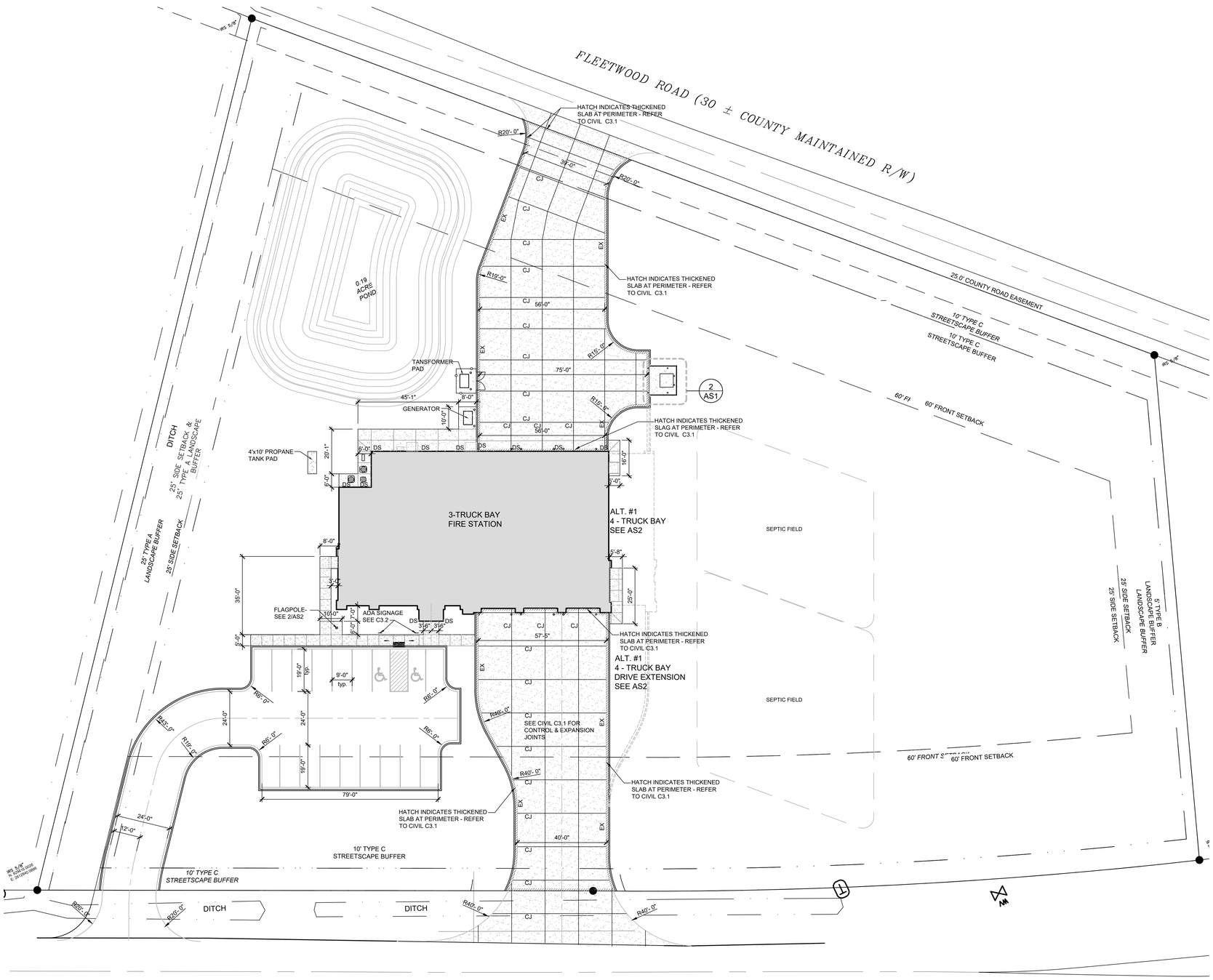
FINKLEA FIRE STATION - SEPTIC SYSTEM

SEPTIC TANK & PUMP CONFIGURATION

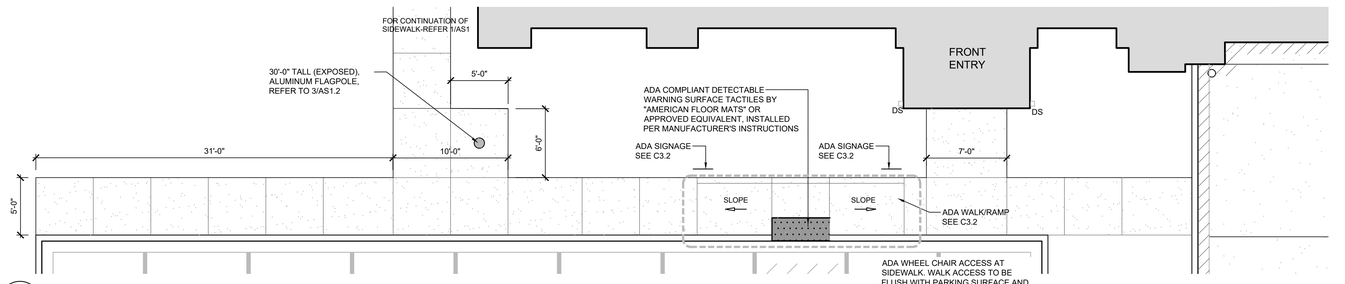
DESIGN SUPERVISOR: CALEB P. RODGERS, P.E.
DES. ENG.: CPR | CHECKED: JCR
DRAFTER: TCB | CHECKED: TCB
DATE: 06/11/24 | PROJ. NO.: 24-299-CM | SCALE: AS SHOWN
FILE: ONSITE SEPTIC ENGINEERING\PROJECTS\2024\24-299-CM FINKLEA FIRE STATION SEPTIC

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24-299-CM-5

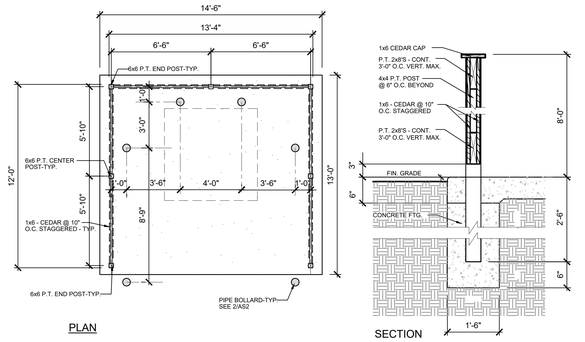
SHEET
SP400



1 AS1 SITE PLAN - 3 TRUCK BAY
SCALE: 1" = 20'



2 AS1 ENLARGED PLAN - ENTRY SIDEWALK
SCALE: 3/16" = 1'-0"



2 AS1 DUMPSTER AREA DETAILS
SCALE: 1/4" = 1'-0"

GENERAL SITE NOTES:

1. ALL EXISTING SITE CONDITIONS TO BE VERIFIED. ANY CONFLICTS AND DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
2. ALL DIMENSIONS TAKEN FROM EXTERIOR FACE OF BUILDING (VERIFY WITH PLANS) . DIMENSIONS AT PARKING AND DRIVE AREAS, ARE TO EDGE OF PAVING TYP. (U.N.O.) DIMENSIONS FOR SITE STRUCTURES NOT INDICATED ON SITE PLAN ARE INDICATED ON THE FLOOR PLANS. PARKING AND DRIVE DIMENSIONS TO BE VERIFIED AND COORDINATED WITH CIVIL AND ARCHITECTURAL DRAWINGS, TYP.
3. EXISTING TREES, SHRUBBERY, ETC. LOCATED IN AREAS OF NEW STRUCTURE, PARKING, DRIVES AND SIDEWALKS, ETC. SHALL BE REMOVED INCLUDING ROOT MASS. EXCAVATED DEPRESSION SHALL BE FILLED AND COMPACTED AS REQUIRED FOR STRUCTURE, PARKING, DRIVES AND SIDEWALKS ETC. OR FOR GRASSING. EXISTING TREES NOT WITHIN CONSTRUCTION AREAS SHALL REMAIN AND BE PROTECTED.
4. ALL EXISTING SITE INFORMATION TAKEN FROM SURVEY DRAWING SUPPLIED BY DIAMOND SHORES SURVEYING, LLC DATED 3/01/2024.
5. REFER TO CIVIL PLANS AND CIVIL SITE DETAILS FOR LIMITS OF CLEARING AND CONSTRUCTION .
6. PROVIDE STRAIGHT EVEN SAWCUT EDGES AT THE INTERSECTION OF THE EXISTING ASPHALT PAVING AND ADDITIONS AS REQUIRED TO PROVIDE STRAIGHT AND EVEN JOINTS BETWEEN EXISTING AND ADDITION.
7. ALL AREAS OF THE PROJECT SITE DISTURBED BY CONSTRUCTION NOT RECEIVING PAVING, BUILDING STRUCTURE, SIDEWALKS, LANDSCAPING, SODDING, ETC. SHALL BE SEEDED AS OUTLINED IN THE SPECIFICATIONS REFER TO CIVIL DRAWINGS.
8. LOCATE TEMPORARY CONSTRUCTION ENTRANCE AND SITE ACCESS AS INDICATED ON CIVIL DRAWINGS. LOCATIONS TO BE VERIFIED AND CONFIRMED DURING SITE PRE-INSTALLATION AND/OR PRE-CONSTRUCTION CONFERENCS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING UTILITY POLES AS REQUIRED OR INDICATED ON CIVIL PLANS TO ACCOMMODATE NEW CONSTRUCTION. VERIFY AND COORDINATE WORK WITH LOCAL UTILITY COMPANY HAVING AUTHORITY OVER PROJECT LOCATION.
10. CONTRACTOR IS ADVISED THAT THE EXISTING SOIL CONDITIONS, DURING WET WEATHER MAY NOT BE CONDUCIVE TO HEAVY EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STABILIZE THE SOIL IN THE AREAS WHERE HEAVY EQUIPMENT IS EXPECTED TO BE USED, USING ROCK OR OTHER MEANS OR METHODS NECESSARY. REFER TO CIVIL DRAWINGS.
11. PROVIDE PRECAST CONCRETE WHEEL STOPS APPROPRIATELY ANCHORED TO PAVING @ EACH PARKING SPACE, TYP. UNO. REFER TO CIVIL DRAWINGS.
12. ALL EXTERIOR WALKS AND PADS TO BE 4" CONCRETE (UNO) WITH LIGHT BROOM FINISH AND CONTROL JOINTING AS INDICATED ON SITE PLAN AND SITE DETAIL SHEET. ALL SLABS ADJACENT TO BUILDING TO SLOPE AWAY FROM BUILDING @ 1/8" TO 1/4" PER FOOT MINIMUM FOR POSITIVE DRAINAGE, TYP.
13. ALL PAVEMENT MARKINGS SHALL COMPLY WITH SC DEPARTMENT OF TRANSPORTATION REQUIREMENTS FOR PAVEMENT MARKINGS. REFER TO CIVIL DRAWINGS.
14. ALL ASPHALT PAVING AND BASE COURSE SHALL COMPLY WITH SC DEPARTMENT OF TRANSPORTATION REQUIREMENTS. REFER TO CIVIL DRAWINGS.
15. CONTRACTOR SHALL SECURE ALL STREET, ROAD AND/OR HIGHWAY ENCROACHMENT PERMITS, APPROVALS, ETC. AS REQUIRED FOR THIS PROJECT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COPIES OF ANY AND ALL "ENCROACHMENT AGREEMENT" PERMITS WITH THE LOCAL UTILITY CO. HAVING JURISDICTION AS WELL AS COUNTY AND/OR SC DOT FOR ALL WORK PERFORMED BY THE CONTRACTOR WITHIN ANY PUBLIC RIGHT-OF-WAY OF THE UTILITY OR COUNTY AND/OR SC DOT.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERFORMANCE BONDS REQUIRED BY THE "ENCROACHMENT AGREEMENT" AND SHALL INCLUDE THE COST OF BONDS IN THEIR CONTRACT.
18. SITE CONTRACTOR SHALL COORDINATE AND VERIFY WITH LANDSCAPE CONTRACTOR FOR PROPER PREPARATION OF FINISH GRADING TO ACCOMMODATE LANDSCAPING AS INDICATED ON DRAWINGS AND SPECIFICATIONS. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE ROUGH AND FINISH GRADING AND SEEDING OF ALL AREAS DISTURBED BY CONSTRUCTION AND NOT RECEIVING BUILDING, PAVING, WALKS, LANDSCAPING OR SODDING. SITE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR STABILIZATION OF STORM WATER CONTROL AREAS TO MEET APPROVAL OF COUNTY ZONING PERMIT REQUIREMENTS AS NEEDED FOR FINAL APPROVAL OF BUILDING OCCUPANCY, IE: PONDS AND SWALES, TYP. CONTRACTOR SHALL ALSO INCLUDE PROVISIONS TO PROVIDE ALL REQUIRED DOCUMENTATION FOR "AS-BUILT" DOCUMENTATION (INCLUDING DRAWINGS AND/OR SURVEYS) AS REQUIRED TO SATISFY FINAL APPROVAL OF SITE IMPROVEMENTS BY COUNTY STORM PERMITTING OFFICE.
19. CONTRACTOR IS ADVISED THAT THE SOILS ENGINEER SHOULD BE CONTACTED DURING THE INITIAL SITE GRADING OPERATIONS OR FOOTING CONSTRUCTION IN THE EVENT THE SUBSURFACE CONDITIONS DEVIATE FROM THE SOIL TEST BORINGS.
20. PROVIDE 8" MIN. FROM FINISH FLOOR ELEVATION TO TOP OF FINISH GRADE AROUND PERIMETER OF BUILDING, TYP. (EXCEPT AT DRIVES, WALKS AND PADS ADJACENT TO EXITS AND ENTRANCES TO THE INTERIOR OF THE FACILITY). REFER TO CIVIL .DRAWINGS.
21. ALL HANDICAPPED CURB OR CURB CUT RAMPS TO THE BUILDING SHALL NOT EXCEED 1/12 SLOPE, MAX. COORDINATE WITH THE CIVIL AND ARCHITECTURAL DRAWINGS.
22. CONTRACTOR SHALL SCHEDULE A SITE PRE-INSTALLATION CONFERENCE AFTER MOBILIZATION OF THE CONTRACTOR'S TEMPORARY SITE FACILITIES AND RECEIPT OF APPROVED SHOP DRAWINGS FOR ALL SITE RELATED MATERIAL AS REQUIRED BY THE CONTRACT DOCUMENTS. ATTENDEES SHALL INCLUDE REPRESENTATIVES FOR THE OWNER, ARCHITECT, CIVIL ENGINEER, AS WELL AS THE CONTRACTOR'S PROJECT MANAGER AND SUPERINTENDENT, SITE CONTRACTOR'S SUPERINTENDENT, AND ALL OTHER PARTIES DEEMED NECESSARY. CONTRACTOR'S PROPOSED CONSTRUCTION SCHEDULE SHALL INCLUDE MILESTONE DATES FOR ALL PRE-INSTALLATION CONFERENCES AS INDICATED THROUGHOUT THESE CONTRACT DOCUMENTS.
23. PROVIDE 6" CONCRETE CURB & GUTTER AROUND ALL PAVED DRIVES AND PARKING AREAS. CURB & GUTTERS TO TERMINATE @ PROPERTY LINE W/ TAPERED END, TYP. REFER TO AND COORDINATE WITH THE CIVIL PLANS.

PMH CROFT
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1300 Professional Drive, Suite 201
Myrtle Beach, South Carolina 29577
843.497.0272 (p) 843.497.0271 (f)
www.pmh@pmhcroft.com

STATE OF SOUTH CAROLINA — Croft & Associates SC, LLC — MYRTLE BEACH, S.C. — 102094 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — JOSEPH CHARLES PIKE — MYRTLE BEACH, S.C. — 2717 — REGISTERED ARCHITECT

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

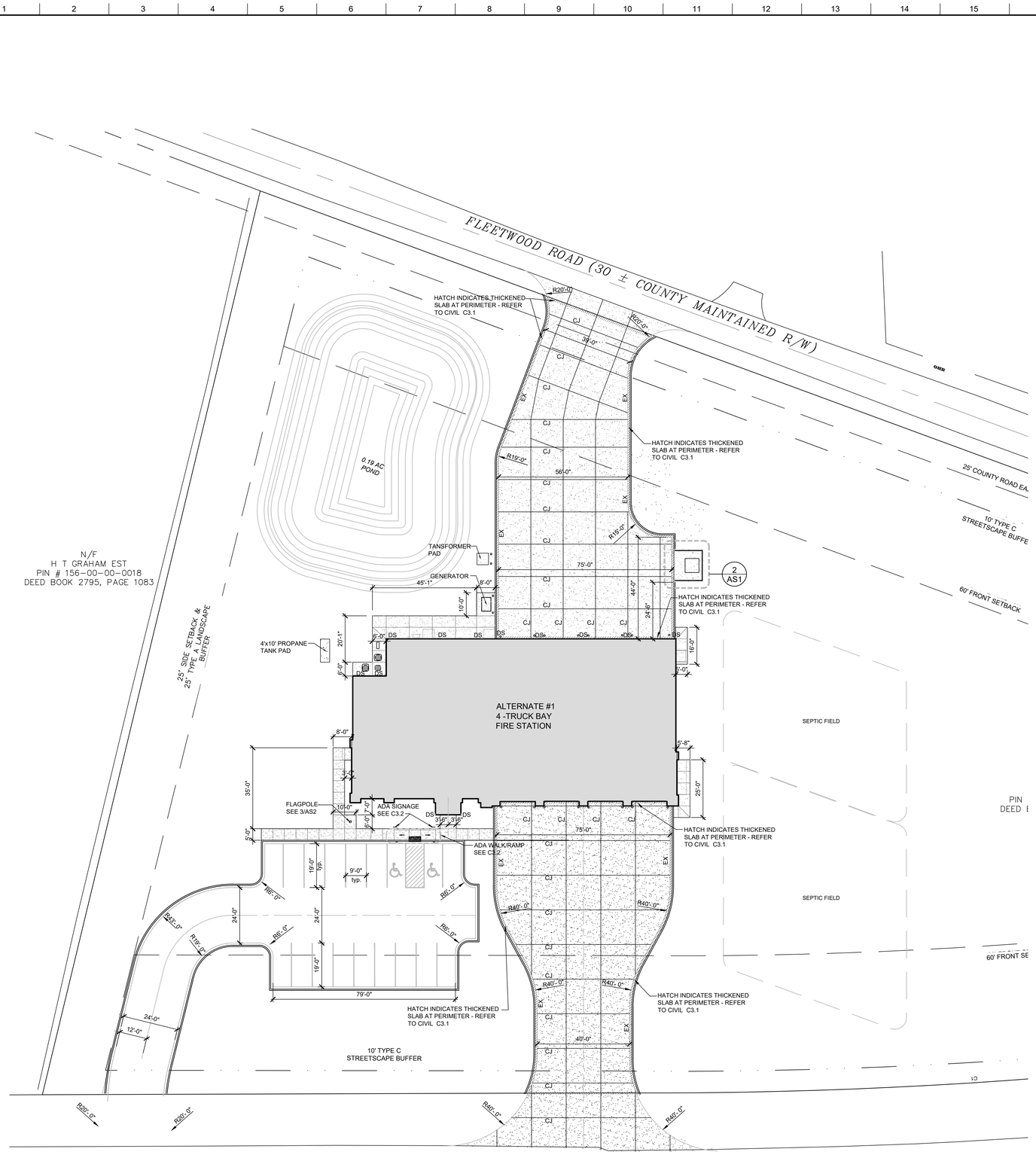
PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24

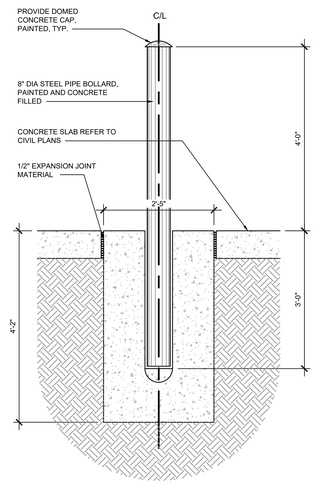
SHEET TITLE
SITE PLAN 3-TRUCK BAY

SHEET NO.
AS1

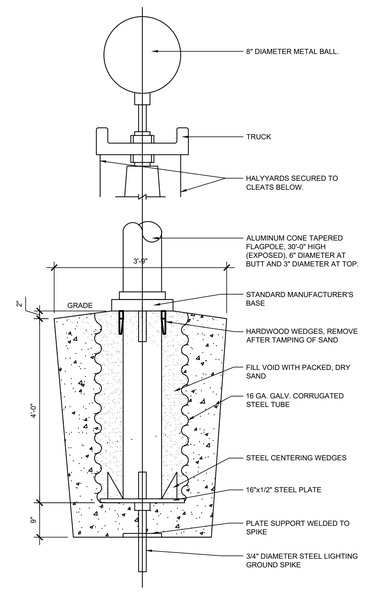
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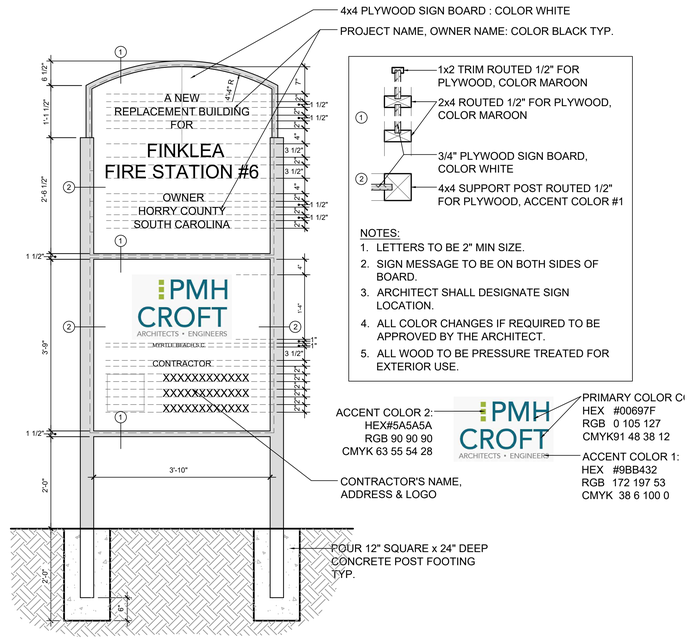
1 AS2 SITE PLAN - ALTERNATE 4 TRUCK BAY
SCALE: 1" = 20'



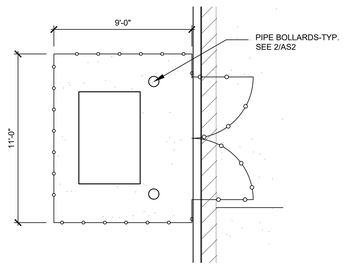
2 AS2 PIPE BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



3 AS2 FLAGPOLE DETAIL
SCALE: 3/4" = 1'-0"



4 AS2 PROJECT IDENTIFICATION SIGN
SCALE: 3/4" = 1'-0"



5 AS2 TRANSFORMER ENCLOSURE
SCALE: 1/4" = 1'-0"

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STATE OF SOUTH CAROLINA — JOSEPH CHARLES PIKE — MYRTLE BEACH, S.C. — 2717 — REGISTERED ARCHITECT

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

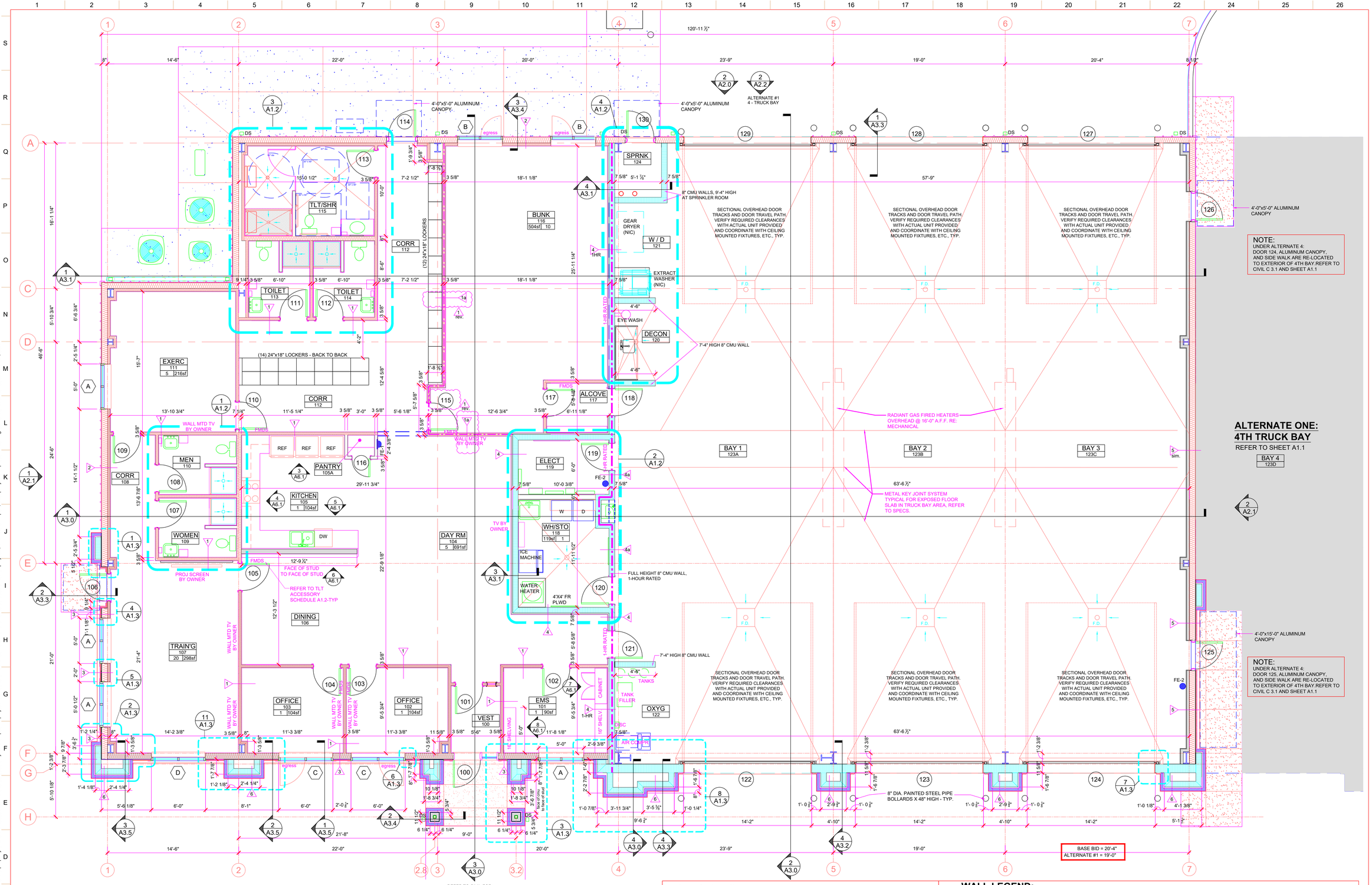
DRAWN: DP
CHECKED:
DATE: 08-15-24

SHEET TITLE
SITE PLAN
ALTERNATE #1
4-TRUCK BAY
SITE DETAILS

SHEET NO.
AS2

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1 A1.0 FLOOR PLAN - 3 TRUCK BAY
SCALE: 1/4"=1'-0"

ALTERNATES:

1. ADD ALTERNATE NUMBER ONE (REFER TO SHEET A1.1)

CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING , MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE THIRD TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.

2. ADD ALTERNATE NUMBER TWO

CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO PROVIDE AND INSTALL A STATIONARY DIESEL EMERGENCY POWER GENERATOR WITH PERMANENT CONNECTIONS TO BUILDING SYSTEMS AS INDICATED ON THE PME DRAWINGS AND SPECIFICATIONS. IF ALTERNATE IS NOT ACCEPTED, CONTRACTOR SHALL PROVIDE A TRANSFER SWITCH FOR PORTABLE GENERATOR

3. ADD ALTERNATE NUMBER THREE

CONTRACTOR SHALL STATE PRICE DIFFERENCE, WHICH WOULD REPRESENT ALL LABOR AND MATERIALS TO PROVIDE A POURED EPOXY FLOOR FINISH IN SPACE 116 BUNK ROOM AND IN SPACE 117 ALCOVE IN LIEU OF LAMINATED VINYL PLANK (LVP) AS INDICATED ON THE ROOM FINISH SCHEDULE SHEET A4.0. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED AS INDICATED ON THESE CONSTRUCTION DOCUMENTS.

WALL LEGEND:

4 7/8"	1	INTERIOR METAL STUD WALL WITH 5/8" GYP. BD. FINISH EACH SIDE. REFER TO PLAN FOR WALL THICKNESS AND FOR SOUND INSULATION LOCATIONS, TYP.
4 7/8"	1a	INTERIOR METAL STUD WALL WITH 5/8" GYP. BD. REV. FINISH EACH SIDE, FLOOR TO ROOF - 1 HR-RATED. FIRE CAULK VOIDS BETWEEN WALL AND ROOF DECK.
1-01/4"	2	EXTERIOR METAL SIDING OVER WALL GIRTS WITH 3 5/8" METAL STUDS @ 16" O.C. TYP. WITH 5/8" GYP. BD. AND 3 1/2" THERMAL BATT INSULATION, TYP.
10 5/8"	3	EXTERIOR 1 1/2" EIFS, ½" SHEATHING W/ MOISTURE/AIR BARRIER, 8" METAL STUDS @ 16" O.C. TYP.,WITH 6" THERMAL BATT INSULATION AND 5/8" GYP. BD. TYP.
9 3/4"	4	INTERIOR 8" CMU WALL FLOOR TO ROOF DECKING WITH 5/8" GYP. BD. OVER 1.5" FURRING (ON LIVING QTRS. SIDE ONLY), TYP. GYP. BD. FINISH TO TERMINATE 8" MIN. ABOVE HIGHEST ADJACENT FINISHED CEILING. 1-HR WHERE NOTED ON FLOOR PLAN-SEE 2/A3.2
9 3/4"	4a	INTERIOR 8" CMU WALL FLOOR TO ROOF DECKING - 1-HR RATING-SEE 2/A3.2
1'-2 3/8"	5	SANDED & PAINTED ¾" A/B GRADE PLYWOOD, FROM SLAB TO BOTTOM OF PEMB STRUCTURE ATTACHED TO 3 ½" MTL STUD. 8" METAL STUDS, ¾" DENSGLASS SUBSTRATE WITH FLUID APPLIED AIR BARRIER, 1 ½" EIFS SYSTEM
1'-1 1/2"	6	REINFORCED 8" CMU DAMPPROOFING ON EXTERIOR SIDE OF CMU, 1 ½ " AIR SPACE, UTILITY BRICK, 4" SMOOTH FACE CMU BELOW

FIRE RATING LEGEND:

1 HOUR FIRE RATED WITH PROTECTED OPENINGS AND PENETRATIONS, TYP.

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PROJECT

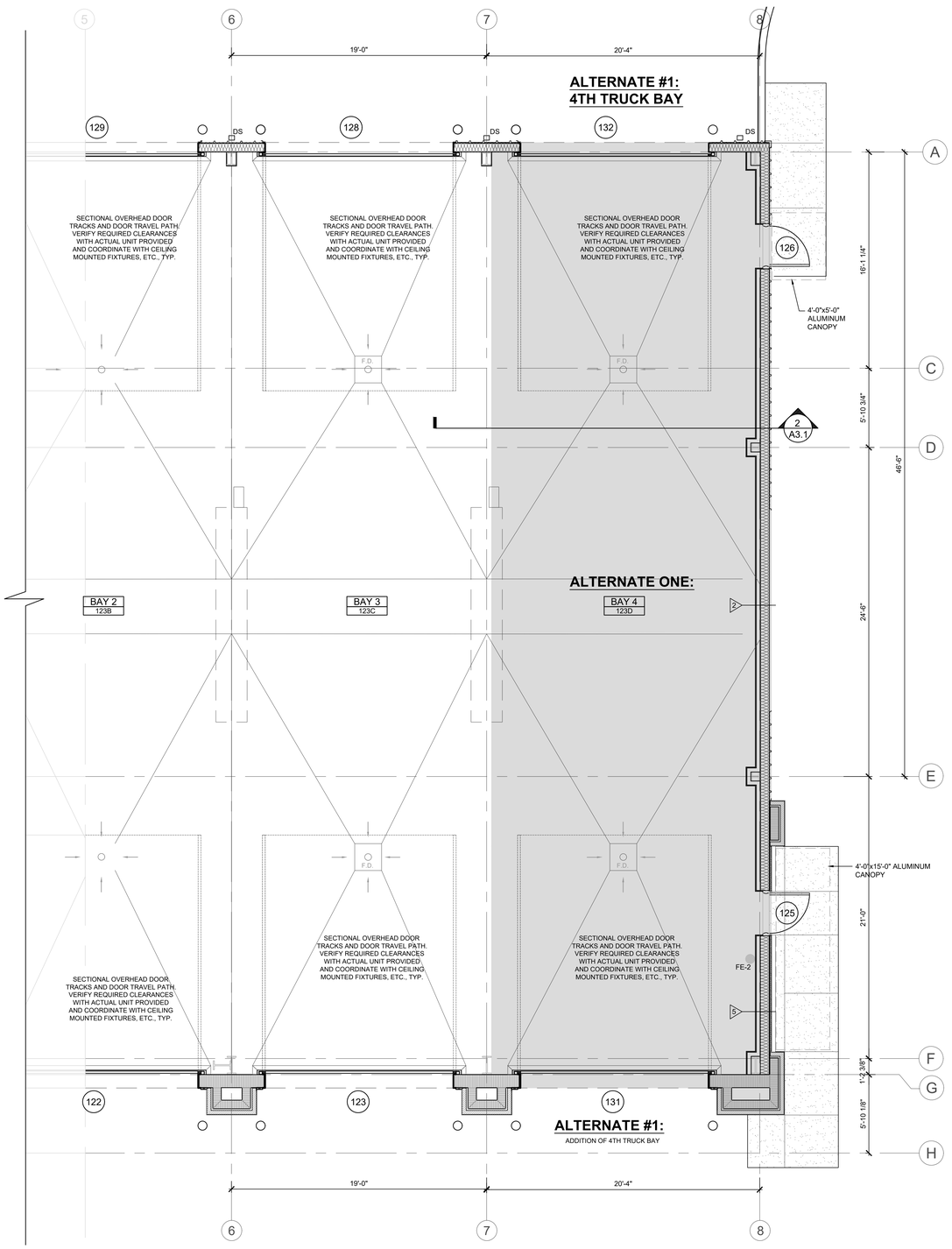
A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN:	CHECKED:
DP	
DATE:	08-15-24
REVISION #1:	11-05-24

SHEET TITLE
Floor Plan
3-TRUCK BAY

SHEET NO.
A1.0



1 A1.1 **ALTERNATE #1 - 4TH TRUCK BAY**
SCALE: 1/4"=1'-0"

ALTERNATE ONE:

1. ADD ALTERNATE NUMBER ONE
CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING , MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE FOURTH TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.

WALL LEGEND:

4 7/8" — 1 — INTERIOR METAL STUD WALL WITH 5/8" GYP. BD. FINISH EACH SIDE. REFER TO PLAN FOR WALL THICKNESS AND FOR SOUND INSULATION LOCATIONS, TYP.

1-01/4" — 2 — EXTERIOR METAL SIDING OVER WALL GIRTS WITH 3 5/8" METAL STUDS @ 16" O.C. TYP. WITH 5/8" GYP. BD. AND 3 1/2" THERMAL BATT INSULATION, TYP.

10 5/8" — 3 — EXTERIOR 1 1/2" EIFS, ½" SHEATHING W/ MOISTURE/AIR BARRIER, 8" METAL STUDS @ 16" O.C. TYP., WITH 6" THERMAL BATT INSULATION AND 5/8" GYP. BD. TYP.

9 3/4" — 4 — INTERIOR 8" CMU WALL FLOOR TO ROOF DECKING WITH 5/8" GYP. BD. OVER 1.5" FURRING (ON LIVING QTRS. SIDE ONLY), TYP. GYP. BD. FINISH TO TERMINATE 8" MIN. ABOVE HIGHEST ADJACENT FINISHED CEILING, 1-HR WHERE NOTED ON FLOOR PLAN

9 3/4" — 4a — INTERIOR 8" CMU WALL FLOOR TO ROOF DECKING - 1-HR RATING-SEE 2/A3.2

1'-2 3/8" — 5 — SANDED & PAINTED ¾" A/B GRADE PLYWOOD, FROM SLAB TO BOTTOM OF PEMB STRUCTURE ATTACHED TO 3 ½" MTL STUD. 8" METAL STUDS, ½ " DENSGLASS SUBSTRATE WITH FLUID APPLIED AIR BARRIER, 1 ½" EIFS SYSTEM

1'-1 ½" — 6 — REINFORCED 8" CMU DAMPPROOFING ON EXTERIOR SIDE OF CMU, 1 ½ " AIR SPACE, UTILITY BRICK, 4" SMOOTH FACE CMU BELOW

FIRE RATING LEGEND:

1 HOUR FIRE RATED WITH PROTECTED OPENINGS AND PENETRATIONS, TYP.

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HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24

SHEET TITLE
Floor Plan Alternate #1 4-Truck Bay

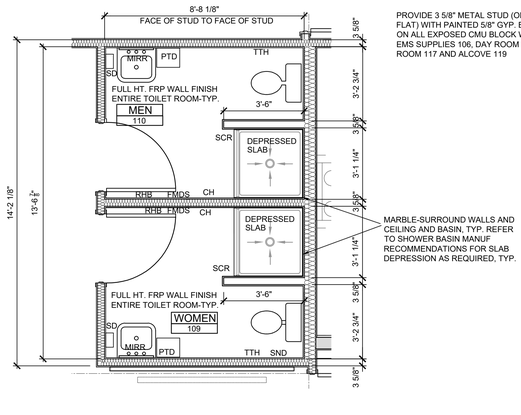
SHEET NO.
A1.1

FLOOR PLAN GENERAL NOTES

1. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS ENCOUNTERED WITH REVIEW OF CONTRACT DOCUMENTS.
2. MILLWORK SHOP DRAWINGS TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW. REFER TO THE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. ALL SITE CONDITIONS EFFECTING INSTALLATION OF MILLWORK TO BE FIELD VERIFIED PRIOR TO FABRICATION. ALL CONFLICTS AND DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR REVIEW.
3. ALL DIMENSIONS ARE TO FACE OF CMU, FACE OF WALL GIRTS, FACE OF STUDS AND CENTERLINES OF COLUMN AND EXTERIOR WINDOWS, U.N.O. (EXCEPT FOR DIMENSIONS FOR MILLWORK WHICH ARE FROM FACE OF WALL FINISH.)
4. ALL EXTERIOR CONCRETE PADS & WALKS TO HAVE LIGHT BROOM FINISH AND TROWELED TO PROVIDE "PICTURE FRAME" EFFECT AND CONTROL JOINTS AS INDICATED ON THE SITE DETAILS SHEET . PROVIDE 1/4"/FT SLOPE AWAY FROM BUILDING FOR SLABS ADJACENT TO BUILDING AND SLOPE TO DRAIN FOR ALL OTHER SECTIONS, TYP. ANY AND ALL CRACKED SLABS SHALL BE REPLACED FROM JOINT TO JOINT NO EXCEPTIONS.
5. ALL INTERIOR NON-LOAD BEARING CMU AND STUD WALLS SHALL TERMINATE 8" MINIMUM ABOVE HIGHEST ADJACENT FINISHED CEILING, U.N.O. OR AS REQUIRED TO ACCOMMODATE CODE REQUIRED BRACING AND SUPPORT FOR SEISMIC INSTALLATION OF SUSPENDED CEILING SYSTEMS.
6. ALL WORK TO BE COORDINATED WITH WORK OF CIVIL, STRUCTURAL, PLUMBING, MECHANICAL, FIRE SPRINKLER, ELECTRICAL, LANDSCAPING, AND ANY OTHER WORK INDICATED AND REQUIRED INDICATED IN THESE CONTRACT DOCMUENTS.
7. UNLESS OTHERWISE INDICATED OR SPECIFIED, PROVIDE CONCRETE "HOUSEKEEPING" MOUNTING PADS FOR ALL EXTERIOR MECHANICAL EQUIPMENT. VERIFY AND COORDINATE WITH MECHANICAL PLANS.
8. PROVIDE SUPPORT BLOCKING AS REQUIRED OR AS RECOMMENDED BY MANUFACTURER FOR STUD WALL MOUNTED ACCESSORIES, FIXTURES, ETC.
9. ALL HANDICAPPED FIXTURES AND ACCESSORIES TO BE MOUNTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) LATEST PUBLICATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND PROPER INSTALLATION OF ALL RELATED ELEMENTS.
10. PRIOVIDE A MINIMUM OF 18" CLEAR ON PULL SIDE OF DOORS AND 12" CLEAR ON PUSH SIDE OF ALL DOORS ALONG ACCESSIBLE ROUTES AND IN ALL HANDICAPPED ACCESSIBLE SPACES.
11. ALL EXPOSED BUILDING FRAMING COMPONENTS AND ACCESSORIES TO BE PRIMED AND PAINTED.
12. CONTRACTOR SHALL COORDINATE ALL UNDERSLAB UTILITIES WITH THE PLUMBING, MECHANICAL, FIRE SPRINKLER AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION AND CONTACT ARCHITECT IF CONFLICTS ARE ENCOUNTERED DURING REVIEW OF DOCUMENTS. CONTRACTOR SHALL SCHEDULE A PRE-INSTALLATION CONFERENCE TO BE HELD PRIOR TO START OF BELOW SLAB UTILITY WORK BUT AFTER RECEIPT OF ALL APPROVED SHOP DRAWINGS ASSOCIATED WITH WORK AND MATERIALS OF THE BELOW SLAB WORK.
13. ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF CURRENT CODES AND REGULATIONS HAVING JURISDICTION OVER ALL TRADES FOR CONSTRUCTION AND INSTALLATION FOR THE FACILITY BASED ON LOCATION.
14. CONTRACTOR'S ATTENTION IS DIRECTED TO ALL BUILDING ELEMENTS INTERSECTING EXTERIOR BRICK AND BLOCK VENEER. CONTRACTOR SHALL FLUSH ALL RECESSED OR PROJECTED ACCENT BAND COURSING OF MASONRY INTERSECTING ADJACENT EXTERIOR FINISHES A MINIMUM OF 1 MASONRY UNIT WIDTH BACK FROM INTERSECTING BUILDING ELEMENT, TYP.
15. CONFIRM AND FIELD COORDINATE METAL WALL STUD AND GYP. BD. FINISH PILASTER LAYOUT AROUND EXPOSED METAL BUILDING FRAMING MEMBERS ERECTED AS REQUIRED TO CONCEAL ALL EXPOSED FRAMING MEMBERS IN THE FINISHED LIVING QUARTERS SIDE OF THE FACILITY.

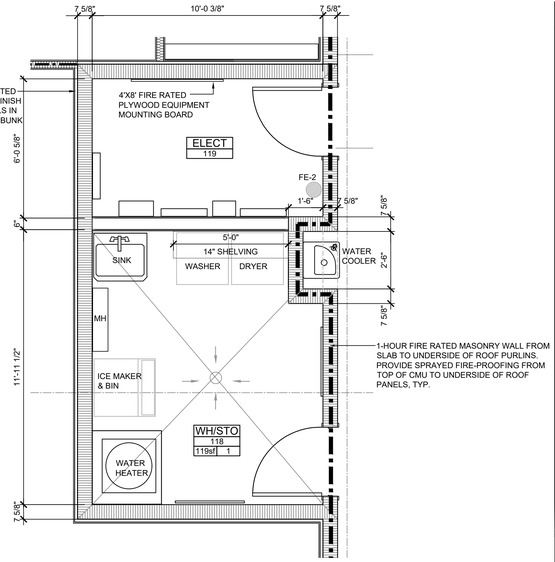
FLOOR PLAN GENERAL NOTES (CONT):

16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL SEISMIC, LATERAL, AND MISCELLANEOUS FRAMING AS REQUIRED BY METAL BUILDING MANUFACTURER WITH LOCATION AND INSTALLATION OF OVERHEAD TRUCK BAY SECTIONAL DOORS, PERSONNEL DOORS AND EXTERIOR WINDOWS AND OTHER WALL OPENINGS. DOORS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION FOR PROPER FIT AND SEAL TO THE EXTERIOR WALL AND SHALL TAKE PRECEDENCE OVER THE LOCATION OF SUCH MISCELLANEOUS FRAMING COMPONENTS. CONTRACTOR SHALL CONTACT THE ARCHITECT IN SUCH CASE THAT A CONFLICT SHOULD BE ENCOUNTERED DURING CONSTRUCTION, TYP.
17. CONTRACTOR SHALL COORDINATE MISCELLANEOUS FRAMING REQUIRED FOR ALL THROUGH WALL EQUIPMENT, FIXTURES, ETC., WITH THE PRE-ENGINEERED METAL BUILDING SUPPLIER. REFER TO PLUMBING, MECHANICAL, FIRE SPRINKLER AND ELECTRICAL PLANS AND DETAILS.
18. CONTRACTOR SHALL COORDINATE LOCATION OF LIGHT FIXTURES WITH THE SECTIONAL OVERHEAD BAY DOORS AND ASSOCIATED ACCESSORIES AND CONTACT ARCHITECT IF ANY CONFLICT ARE ENCOUNTERED.
19. CONTRACTOR SHALL COORDINATE LOCATION OF EXTERIOR SOFFIT LIGHT FIXTURES WITH BUILDING STEEL FRAMING COMPONENTS AND SHALL CONTACT ARCHITECT IF ANY CONFLICTS ARE ENCOUNTERED, REFER TO THE REFLECTED CEILING AND ELECTRICAL LIGHTING PLANS.
20. ALL WINDOWS SHALL BE PRE-FINISHED ALUMINUM UNITS TO MEET MINIMUM LARGE AND SMALL MISSILE IMPACT CODE REQUIREMENTS FOR BUILDING DESIGN CATAGORY, REFER TO STRUCTURAL. (NOTE, REFER TO PLANS AND WINDOW SCHEDULE FOR UNITS TO BE PROVIDED WITH RESCUE OPERABLE SECTION.)
21. PROVIDE 3 1/2" OR 6" SOUND ATTENUATION BATT INSULATION IN ALL INTERIOR STUD WALLS AND 6" ON TOP OF SUSPENDED CEILINGS FOR 24" MINIMUM WIDTH ON EACH SIDE OF WALLS THAT DO NOT SEAL TO UNDERSIDE OF ROOF CONSTRUCTION, TYP. (REFER TO REFLECTED CEILING PLAN.)
22. FURNITURE INDICATED BY DASHED LINES ARE NOT IN THIS CONTRACT, TYP.
23. CONTRACTOR SHALL PROVIDE 1 1/2" THICK LT. GA. METAL FURRING OR 3 5/8" METAL STUDS ORIENTED FLAT AGAINST INTERIOR LIVING QUARTERS SIDE OF ALL CMU WALLS FOR APPLICATION OF GYP. BD. FINISH.
24. CONCRETE FLOOR SLABS IN ALL TRUCK BAYS TO BE SLOPED TO DRAINS FOR POSITIVE DRAINAGE AND PROVIDED WITH METAL KEY JOINT SYSTEM AS SPECIFIED, TYP. EXPOSED CONCRETE BAY SLABS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION TO PREVENT DAMAGE AND MARRING FROM CONSTRUCTION WORK AND EQUIPMENT. PROVIDE ISOLATION JOINTS AROUND ALL BUILDING COLUMNS IN TRUCK BAY AREA AS INDICATED ON THE PLANS AND DETAILS. PROVIDE RECESSED SLAB DEPRESSION AT ALL OVERHEAD SECTIONAL DOOR OPENINGS AS INDICATED ON THE DOCUMENTS.
25. PROVIDE PAINTED 8" DIAMETER X 4'-0" HIGH CONCRETE FILLED STEEL PIPE BOLLARD LOCATED ON EACH SIDE OF ALL TRUCK BAY EXTERIOR OVERHEAD DOORS WHERE INDICATED ON PLANS, TYP.
26. FINISH FLOOR ELEVATION (FFE) AS INDICATED ON THE FLOOR PLAN SHALL BE VERIFIED AND COORDINATED WITH THE EXISTING SURVEY PLAN INCLUDED FOR REFERENCE IN THESE CONTRACT DOCUMENTS AND WITH THE CIVIL DRAWINGS.
27. ALL ACCENT BRICK COURSES INCLUDING SOLDIERS, ROWLOCKS, STRETCHERS, ETC. SHALL BE THE ACCENT COLOR SPECIFIED AND/OR AS SELECTED BY THE ARCHITECT. ALL OTHER BRICK (FIELD) SHALL BE THE FIELD COLOR AS SPECIFIED. 8" x 8" CMU MEDALLIONS INDICATED ABOVE THE OVERHEAD TRUCK BAY DOOR OPENINGS SHALL BE 8" x 8" x 4" THICK CUSTOM CMU TO MATCH THE BOTTOM WALL COURSES. (SEE SHEET A6 - EXTERIOR ELEVATIONS).
28. ALL INTERIOR WALLS TO BE 3 5/8" OR 6" METAL STUD WALLS, TYP., (REFER TO PLANS) U.N.O.
29. ALL WOOD INSTALLED WITH THE BUILDING STRUCTURE SHALL BE FIRE-TREATED OR PROTECTED WITH INTUMESCENT FIRE PAINT MATERIALS AS ALLOWED PER IBC CHAPTER SIX.



MARBLE-SURROUND WALLS AND CEILING AND BASIN, TYP. REFER TO SHOWER BASIN MANUF RECOMMENDATIONS FOR SLAB DEPRESSION AS REQUIRED, TYP.

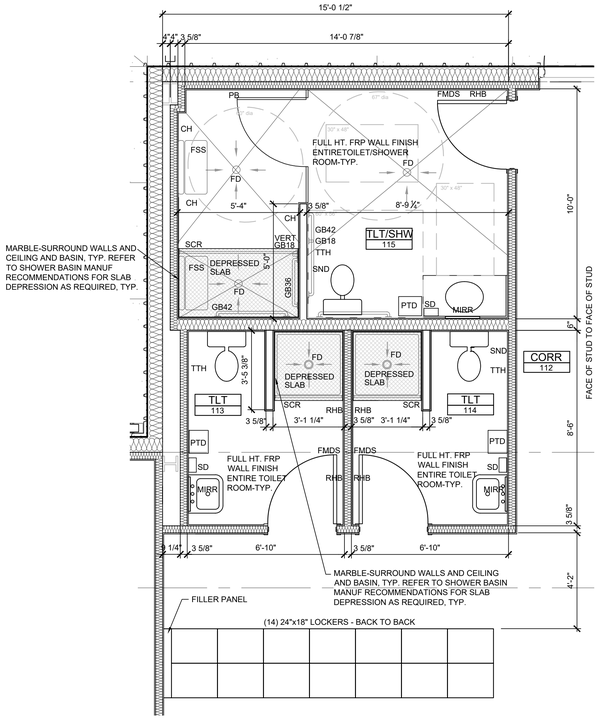
1 ENLARGED TOILET PLAN
A1.2 SCALE: 3/8"=1'-0"



PROVIDE 3 5/8" METAL STUD (ORIENTED FLAT) WITH PAINTED 5/8" GYP. BD. FINISH ON ALL EXPOSED CMU BLOCK WALLS IN EMS SUPPLIES 106, DAY ROOM 104, BUNK ROOM 117 AND ALCOVE 119

1-HOUR FIRE RATED MASONRY WALL FROM SLAB TO UNDERSIDE OF ROOF PURLINS. PROVIDE SPRAYED FIRE-PROOFING FROM TOP OF CMU TO UNDERSIDE OF ROOF PANELS, TYP.

2 ENLARGED WH / STORAGE
A1.2 SCALE: 3/8"=1'-0"

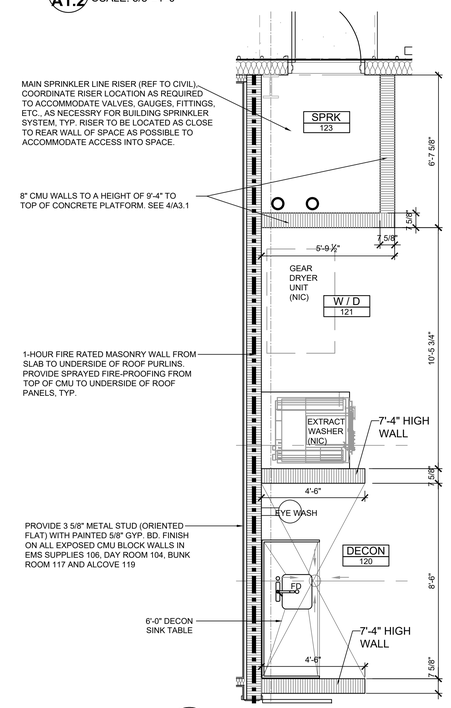


MARBLE-SURROUND WALLS AND CEILING AND BASIN, TYP. REFER TO SHOWER BASIN MANUF RECOMMENDATIONS FOR SLAB DEPRESSION AS REQUIRED, TYP.

FILLER PANEL

(14) 24"x18" LOCKERS - BACK TO BACK

3 ENLARGED TOILET PLAN
A1.2 SCALE: 3/8"=1'-0"



MAIN SPRINKLER LINE RISER (REF TO CIVIL). COORDINATE RISER LOCATION AS REQUIRED TO ACCOMMODATE VALVES, GAUGES, FITTINGS, ETC., AS NECESSRY FOR BUILDING SPRINKLER SYSTEM, TYP. RISER TO BE LOCATED AS CLOSE TO REAR WALL OF SPACE AS POSSIBLE TO ACCOMMODATE ACCESS INTO SPACE.

8" CMU WALLS TO A HEIGHT OF 9'-4" TO TOP OF CONCRETE PLATFORM. SEE 4/A3.1

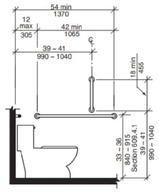
1-HOUR FIRE RATED MASONRY WALL FROM SLAB TO UNDERSIDE OF ROOF PURLINS. PROVIDE SPRAYED FIRE-PROOFING FROM TOP OF CMU TO UNDERSIDE OF ROOF PANELS, TYP.

PROVIDE 3 5/8" METAL STUD (ORIENTED FLAT) WITH PAINTED 5/8" GYP. BD. FINISH ON ALL EXPOSED CMU BLOCK WALLS IN EMS SUPPLIES 106, DAY ROOM 104, BUNK ROOM 117 AND ALCOVE 119

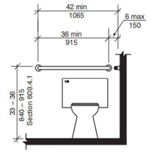
6'-0" DECON SINK TABLE

4 ENLARGED DECON PLAN
A1.2 SCALE: 3/8"=1'-0"

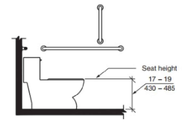
ICC A117.1 ACCESSIBLE REQUIREMENTS



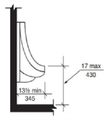
SIDE-WALL GRAB BAR FOR WATER CLOSET



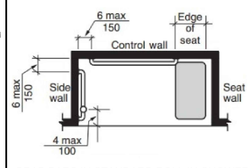
REAR-WALL GRAB BAR FOR WATER CLOSET



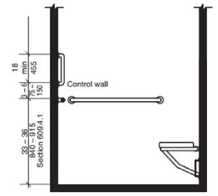
WATER CLOSET SEAT HEIGHT



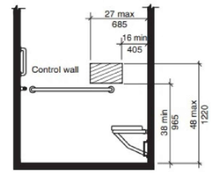
HEIGHT & DEPTH OF URINAL WALL HUNG TYPE



GRAB BARS IN STANDARD ROLL IN-SHOWER

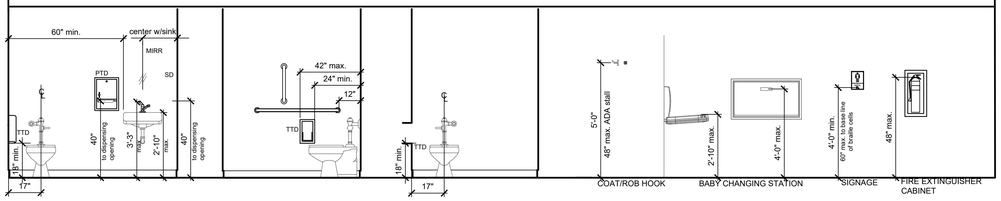


GRAB BARS IN STANDARD ROLL IN-SHOWER



CONTROLS AND HAND HELD SHOWER IN STANDARD ROLL-IN SHOWER

MISCELLANEOUS MOUNTING HEIGHTS

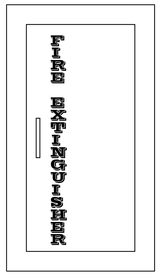


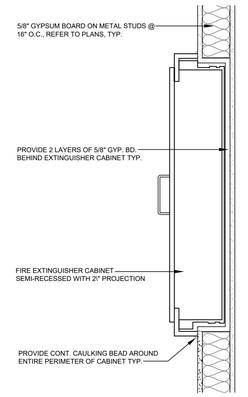
TOILET ACCESSORY SCHEDULE

MK	DESCRIPTION (mounted per ADA)	MANUF	MODEL NO
TTH	TOILET TISSUE HOLDER (SURFACE MTD)	BY OWNER	INSTALLED BY GC
PTD	PAPER TOWEL DISPENSER (SURFACE MTD)	BY OWNER	INSTALLED BY GC
SD	HAND SOAP DISPENSER (SURFACE MTD)	BY OWNER	INSTALLED BY GC
SND	SANITARY NAPKIN DISPOSAL	BRADLEY	4722-15
GB18	GRAB BAR-18" VERTICAL, SAFETY GRIP FINISH	BRADLEY	832-001-18-
GB36	GRAB BAR 36" LONG, SAFETY GRIP FINISH	BRADLEY	832-001-36
GB42	GRAB BAR 42" LONG, SAFETY GRIP FINISH	BRADLEY	832-001-42
RHB	ROBE HOOK-BUMPER (MOUNT 5'-0" A.F.F.)	BRADLEY	915
CH	ROBE HOOK (MOUNT 5'-0" A.F.F.)	BRADLEY	9114
MIRR	18"x36" MIRROR	BRADLEY	780-1836
SCR	SHOWER ROD / SHOWER CURTAIN / HOOKS	BRADLEY	9539 / 9537 / 9540
MH	MOP HOLDER (ALL JANITOR SPACES)	BRADLEY	9933
FSS	FOLDING SHOWER SEAT	BRADLEY	9593
PB	TOILET PARTITION WALL BUMPER	TOILET PARTITION	REFER TO SPECS
FMDS	FLOOR MOUNTED DOOR STOP	PHITOUDA	HEAVY DUTY 3" S.S.

GENERAL TOILET NOTES:

1. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL VENTS AND/OR PLUMBING PIPES AND OTHER UTILITIES IN WALLS BEHIND ALL ACCESSORIES AS REQUIRED.
2. TOILET ELEVATIONS INDICATE TYPICAL MOUNTING HEIGHTS FOR ACCESSORIES. REFER TO PLANS TO VERIFY LOCATIONS OF ALL REQUIRED ACCESSORIES.
3. ALL ADA ACCESSORIES SHALL BE MOUNTED PER ANSI-117.1. ALL OTHER ACCESSORIES TO BE MOUNTED PER INDUSTRY STANDARDS OR AS RECOMMENDED BY MAUNFACTURER.
4. ALL FIXTURE DIMENSIONS ARE TO CENTERLINE OF FIXTURE. ALL WATER CLOSETS TO BE LOCATED 18" CLEAR MAX., FROM CORNER OF SPACE OR STALL, TYP. ALL LAVATORIES TO BE MOUNTED IN CENTER OF COUNTER FOR SINGLE BOWL OR 16" MIN CLEAR FROM SIDE WALL, TYP.
5. ALL EXPOSED MOUNTING ANCHORS SHALL BE "TAMPERPROOF". PROVIDE WASHERS, BUSHINGS ETC., AS RECOMMENDED BY THE MANUFACTURER AND REQUIRED FOR SECURED AND PROPER MOUNTING OF ACCESSORIES, TYP.
6. PROVIDE PROTECTIVE INSULATION WRAPS FOR ALL EXPOSED PIPING BELOW LAVATORIES AND SINKS.
7. MOUNTING ANCHORS FOR ALL ACCCESSORIES SHALL NOT BE INSTALLED IN JOINTS OF CMU MASONRY WHERE APPLICABLE.
8. PROVIDE MISCELLANEOUS SUPPORT BLOCKING FOR ALL ACCCESSORIES IN STUD WALL CONSTRUCTION AS REQUIRED.
9. PROVIDE WATER RESISTANT CAULKING AT THE INTERSECTION OF ALL FIXTURE UNITS AND WALLS, FLOORS, COUNTERTOPS, ETC., TYP. ALSO CAULK AROUND PERIMETER AT INTERSECTIONS BETWEEN COUNTERTOPS, BACKSPLASHS, (FIXTURES & APPLIANCES IN COUNTERTOP), AND WALLS @ TOILETS AND KITCHEN.
10. VERIFY AND COORDINATE LOCATION AND PLACEMENT OF SHOWER FAUCET FITTINGS AND ACCESSORIES WITH ANSI-117.1 REQUIREMENTS, TYP.





5 FIRE EXTINGUISHER CABINET
A1.2 SCALE: 1 1/2"=1'-0"

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STATE OF SOUTH CAROLINA — JOSEPH CHARLES PIKE — MYRTLE BEACH, S.C. — 2717 — REGISTERED ARCHITECT

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

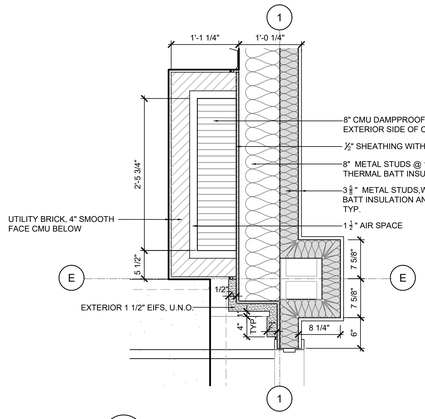
PROJECT NUMBER
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DRAWN: DP
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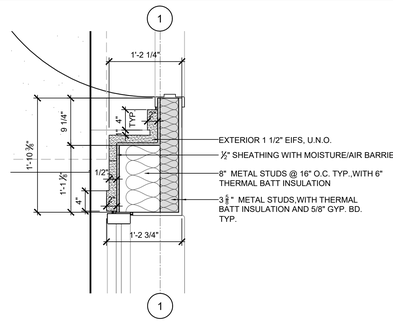
SHEET TITLE
Enlarged Plans

SHEET NO.
A1.2

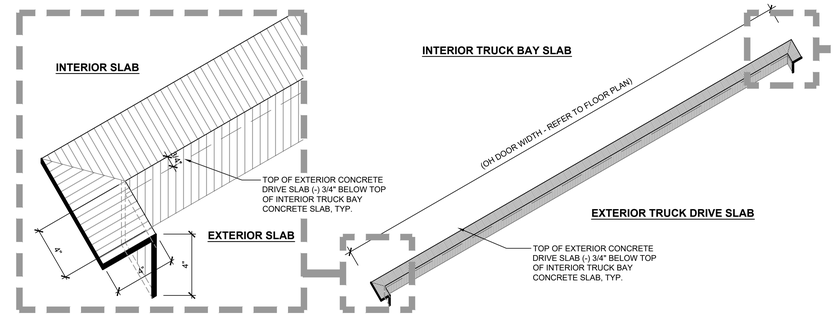
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1 DETAIL - DOOR 106
A1.3 SCALE: 1"=1'-0"



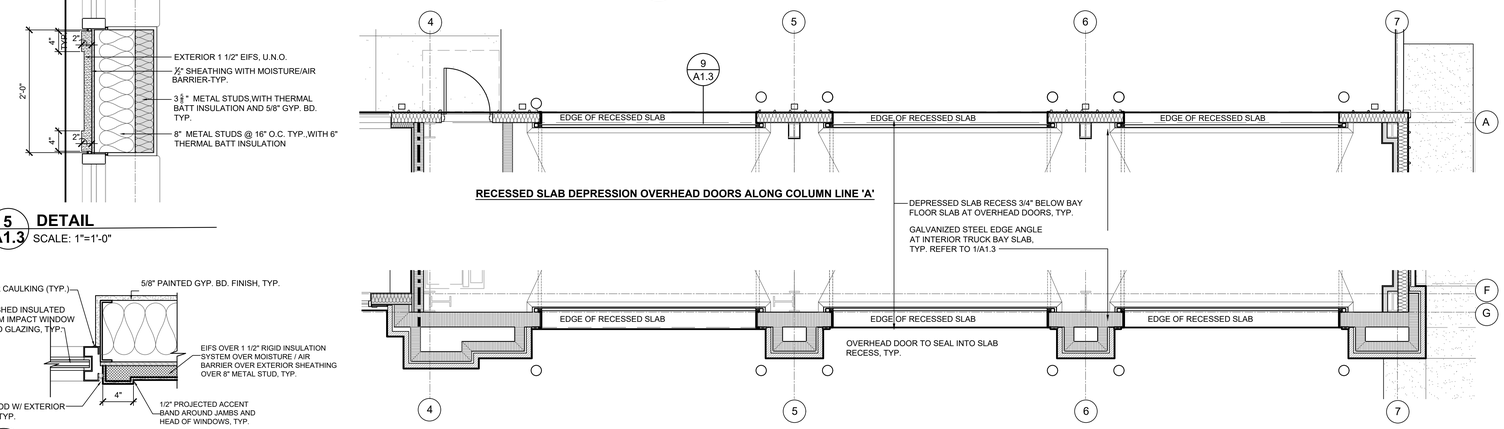
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A1.3 SCALE: 1"=1'-0"

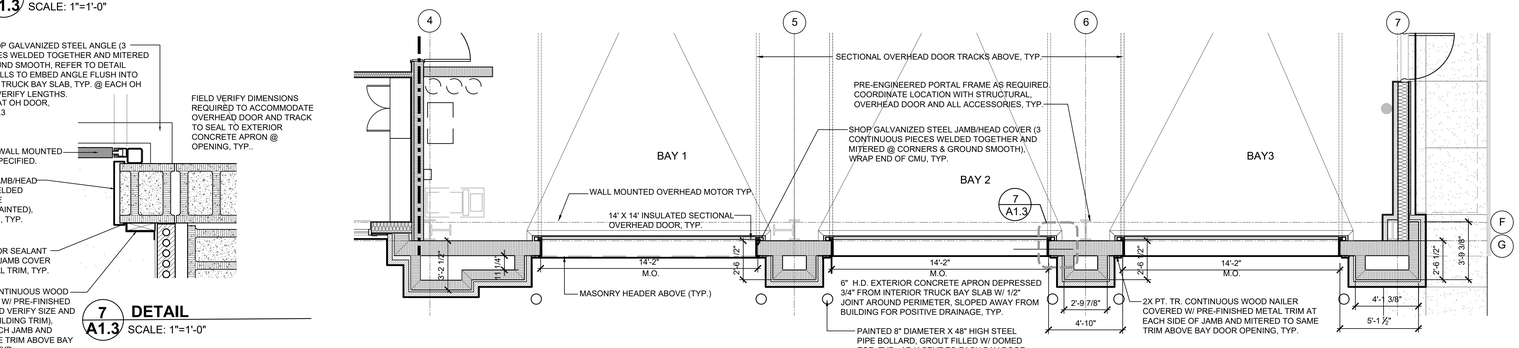


SCALE: 3"=1'-0"

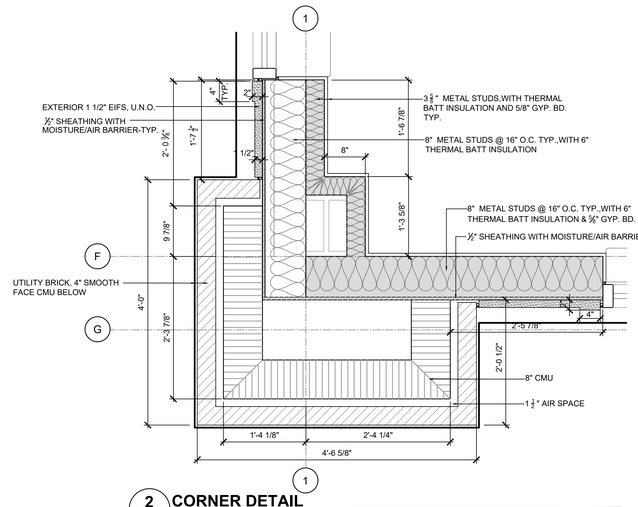
SCALE: 3"=1'-0"

9 OVERHEAD DOOR RECESSED SLAB EDGE ANGLE (ISOMETRIC) VIEW
A1.3



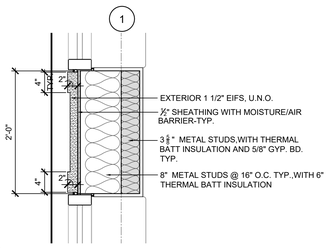


10 ENLARGED PLAN - OVERHEAD DOOR MASONRY OPENINGS
A1.3 SCALE: 1/4"=1'-0" (DIMENSIONS TO FACE OF BRICK VENEER)

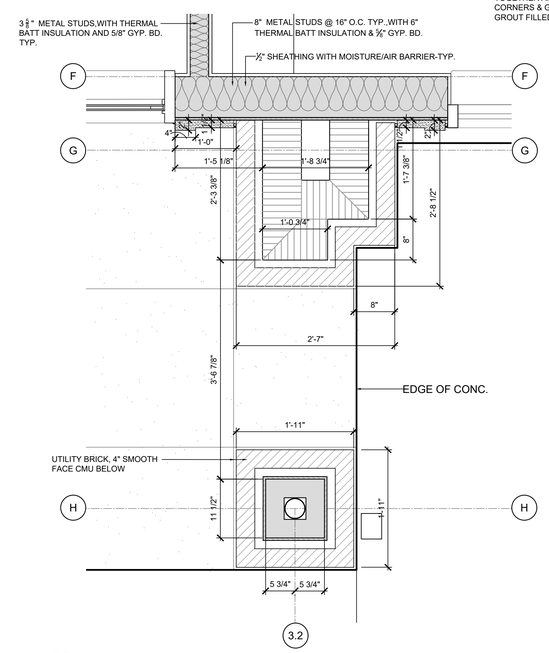


2 CORNER DETAIL
A1.3 SCALE: 1"=1'-0"

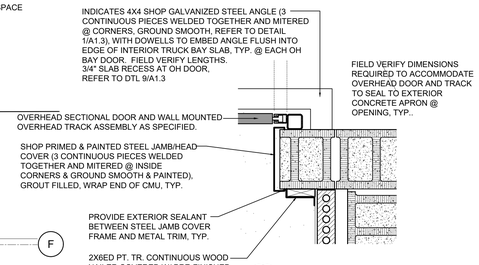
6 DETAIL
A1.3 SCALE: 1"=1'-0"



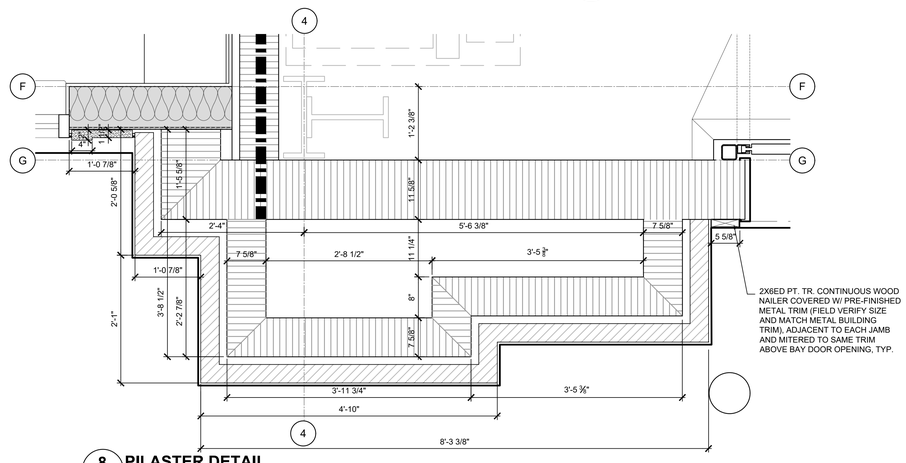
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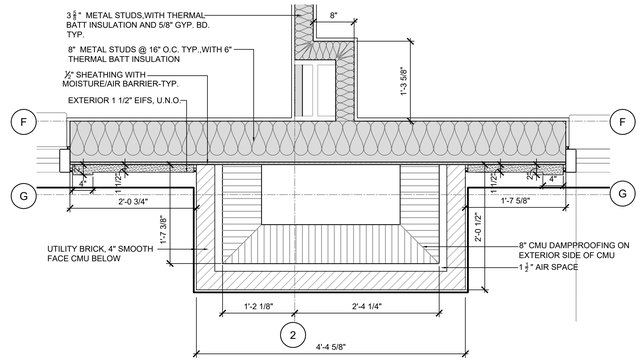
3 CORNER DETAIL
A1.3 SCALE: 1"=1'-0"



7 DETAIL
A1.3 SCALE: 1"=1'-0"



8 PILASTER DETAIL
A1.3 SCALE: 1"=1'-0"



11 PILASTER DETAIL
A1.3 SCALE: 1"=1'-0"

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2717
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OWNER

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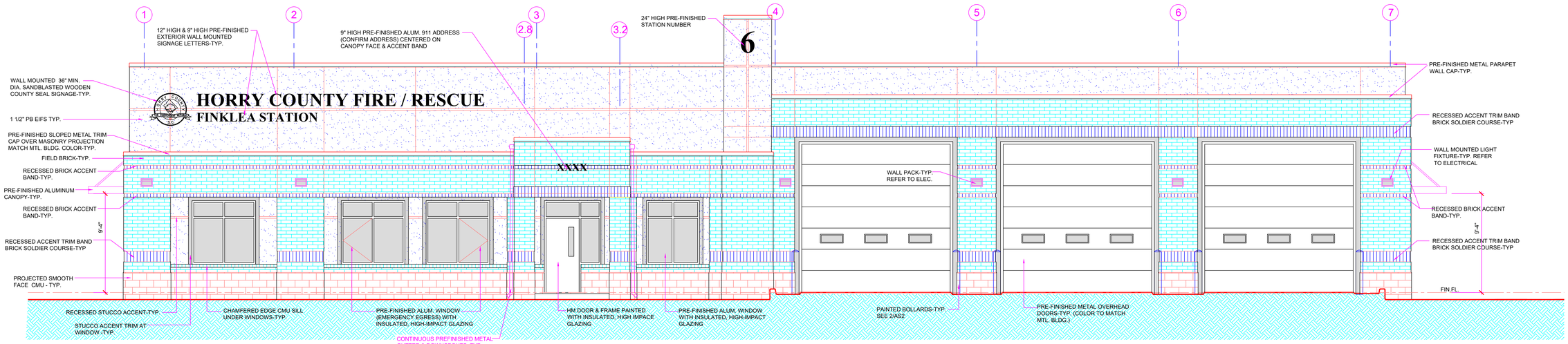
A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

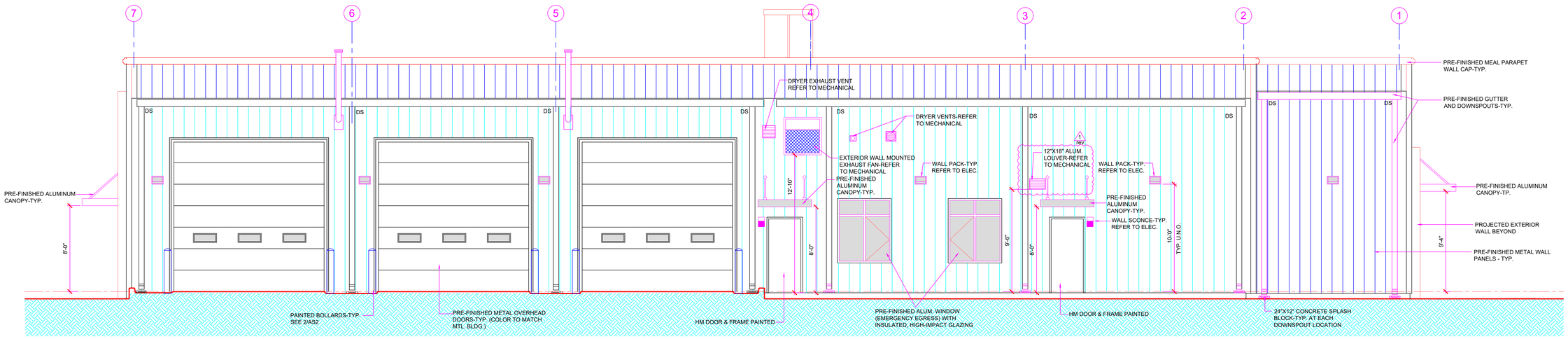
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CHECKED:
DATE: 08-15-24

SHEET TITLE
Plan Details

SHEET NO.
A1.3



1 A2.0 **FRONT ELEVATION - 3 TRUCK BAY**
SCALE: 1/4"=1'-0"



2 A2.0 **REAR ELEVATION - 3 TRUCK BAY**
SCALE: 1/4"=1'-0"

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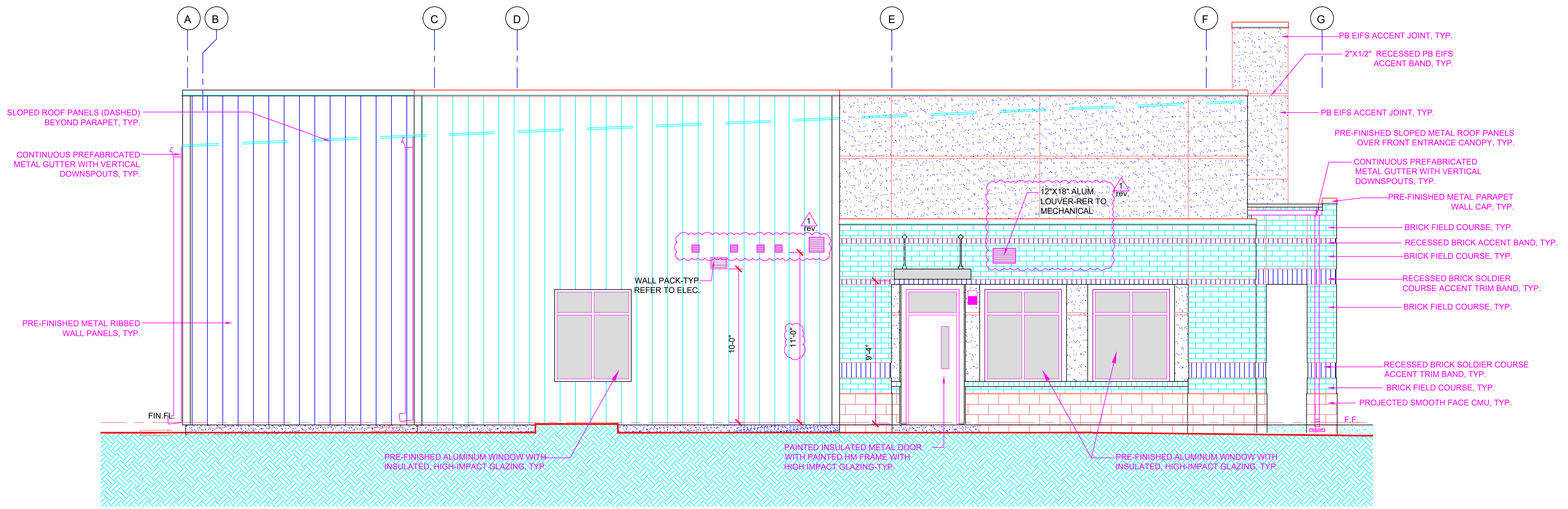
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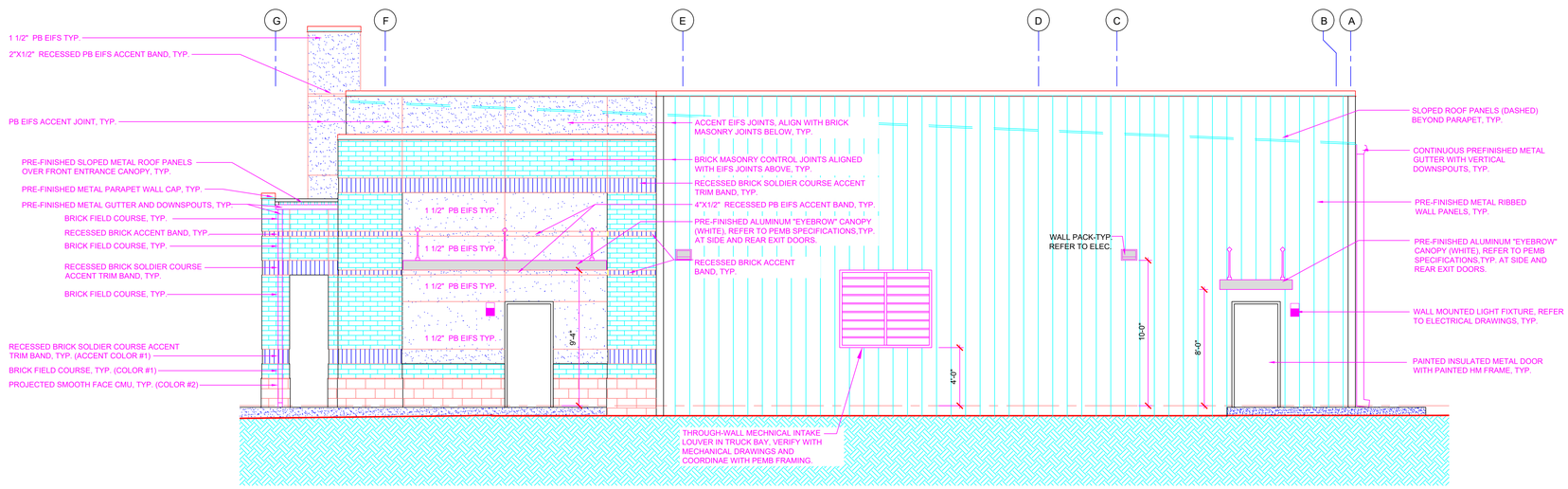
DRAWN: DP
CHECKED:
DATE: 08-28-24
DATE: 11-05-24

SHEET TITLE
Elevations
3-Truck Bay

SHEET NO.
A2.0



1 A2.1 **SIDE ELEVATION - 3 TRUCK BAY & ALTERNATE #1: 4 TRUCK BAY**
SCALE: 1/4"=1'-0"



2 A2.1 **SIDE ELEVATION - 3 TRUCK BAY & ALTERNATE #1: 4 TRUCK BAY**
SCALE: 1/4"=1'-0"

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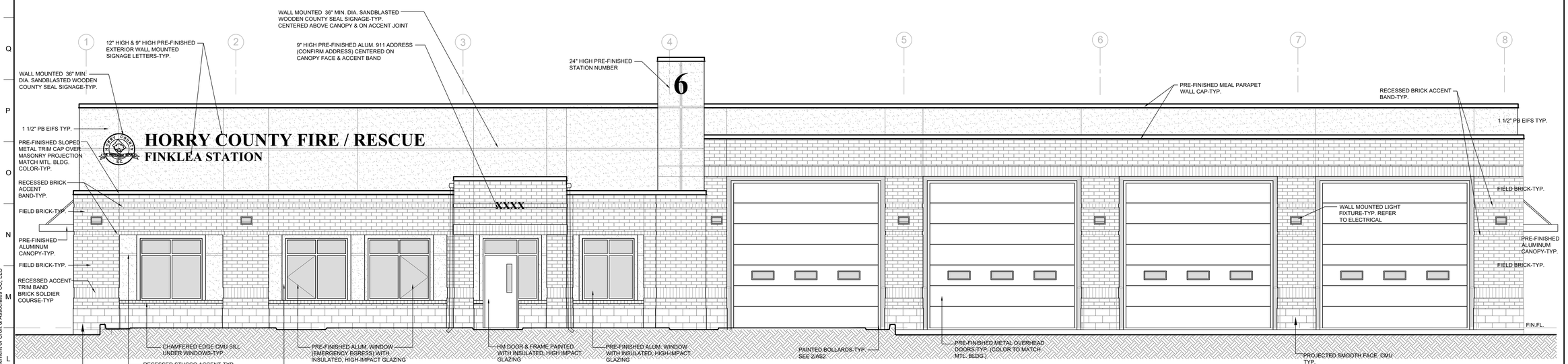
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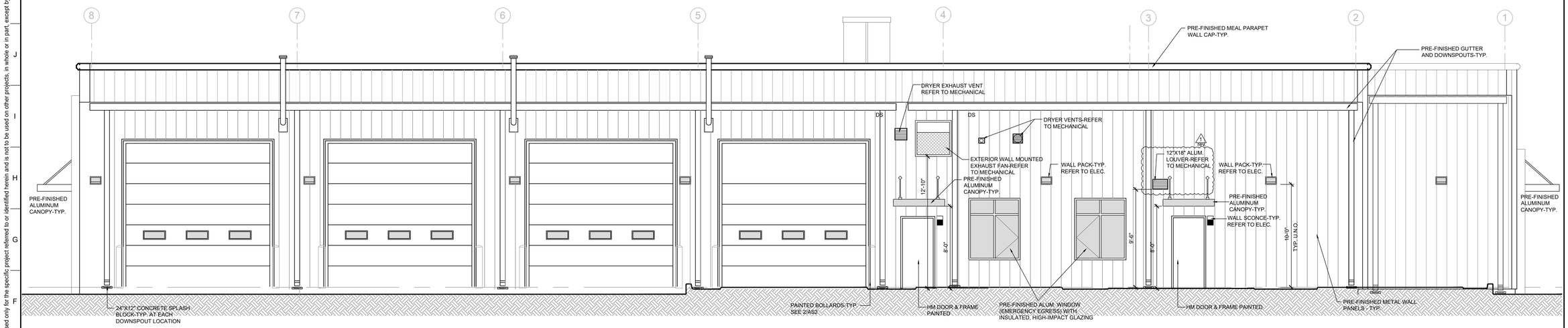
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CHECKED:
DATE: 08-15-24
REVISION #1: 11-05-24

SHEET TITLE
Elevations
Base bid & Alternate #1

SHEET NO.
A2.1



1 A2.2 **FRONT ELEVATION - 4 TRUCK BAY - ALTERNATE**
SCALE: 1/4"=1'-0"



2 A2.2 **FRONT ELEVATION - 4 TRUCK BAY - ALTERNATE**
SCALE: 1/4"=1'-0"

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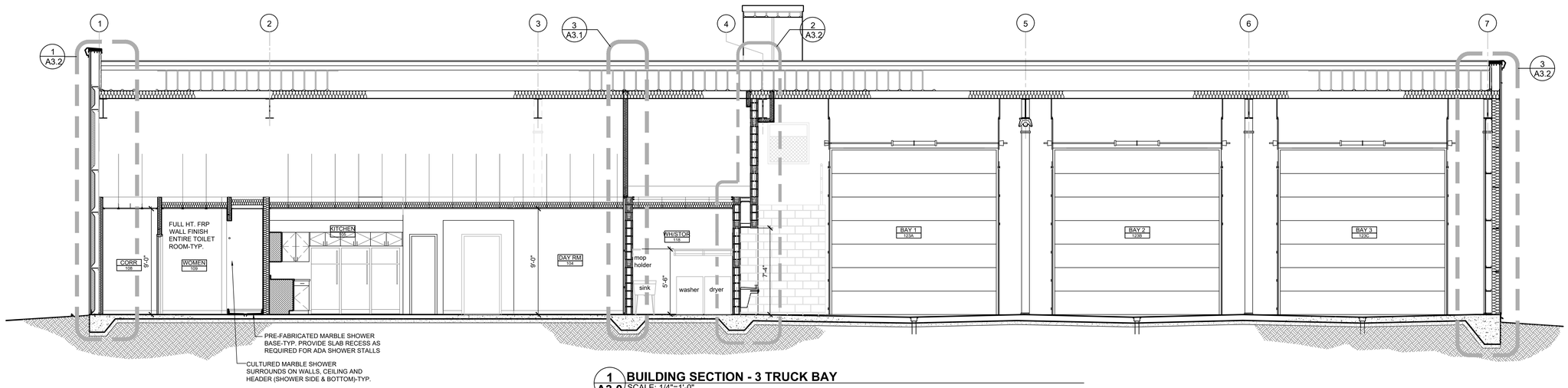
A NEW BUILDING REPLACEMENT FOR:
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HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
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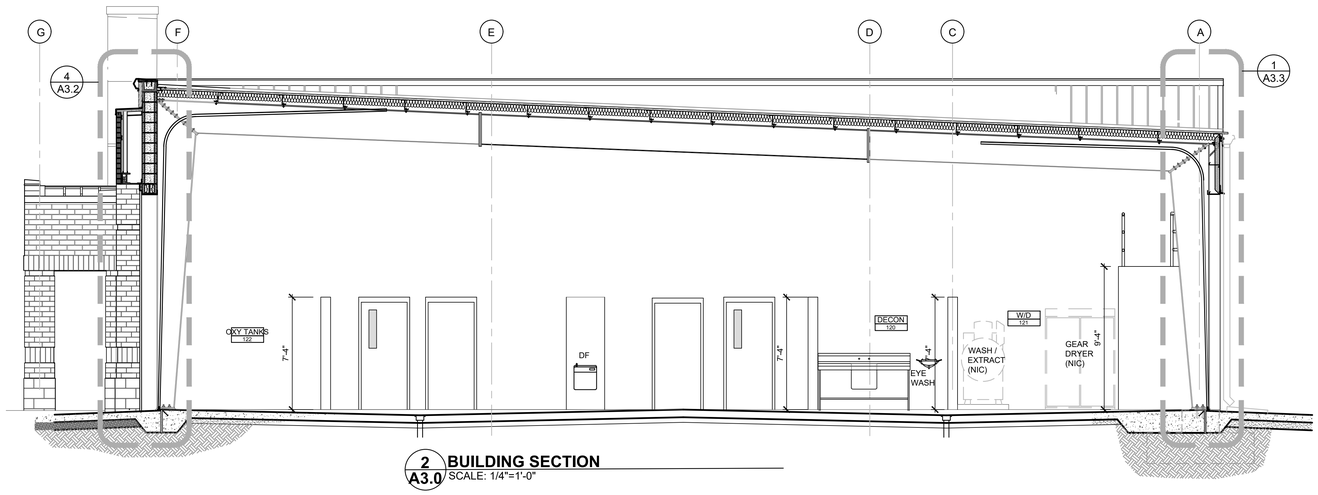
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DATE: 08-15-24

SHEET TITLE
Elevations
Alternate #1
4-Truck Bay

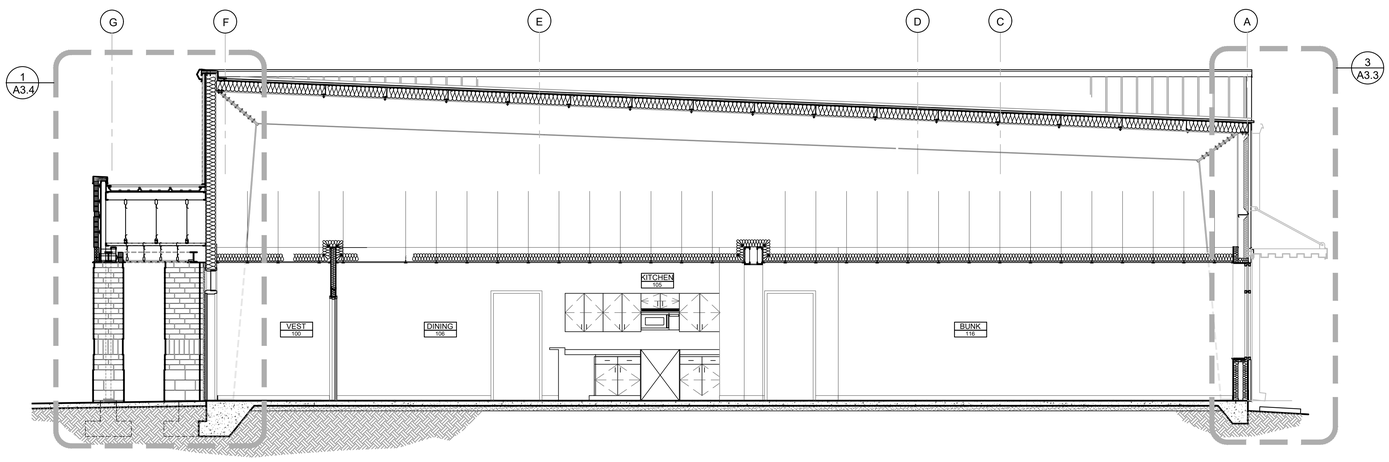
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A2.2



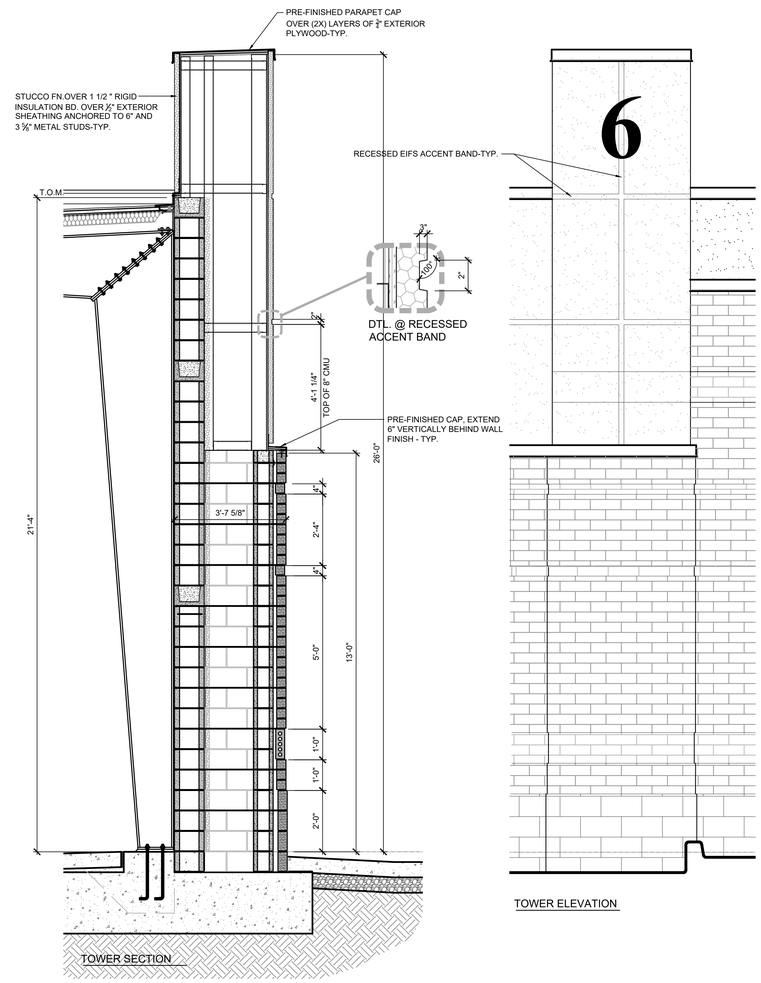
1 A3.0 BUILDING SECTION - 3 TRUCK BAY
SCALE: 1/4"=1'-0"



2 A3.0 BUILDING SECTION
SCALE: 1/4"=1'-0"



3 A3.0 BUILDING SECTION
SCALE: 1/4"=1'-0"



4 A3.0 SECTION THROUGH FRONT TOWER
SCALE: 1/2"=1'-0"

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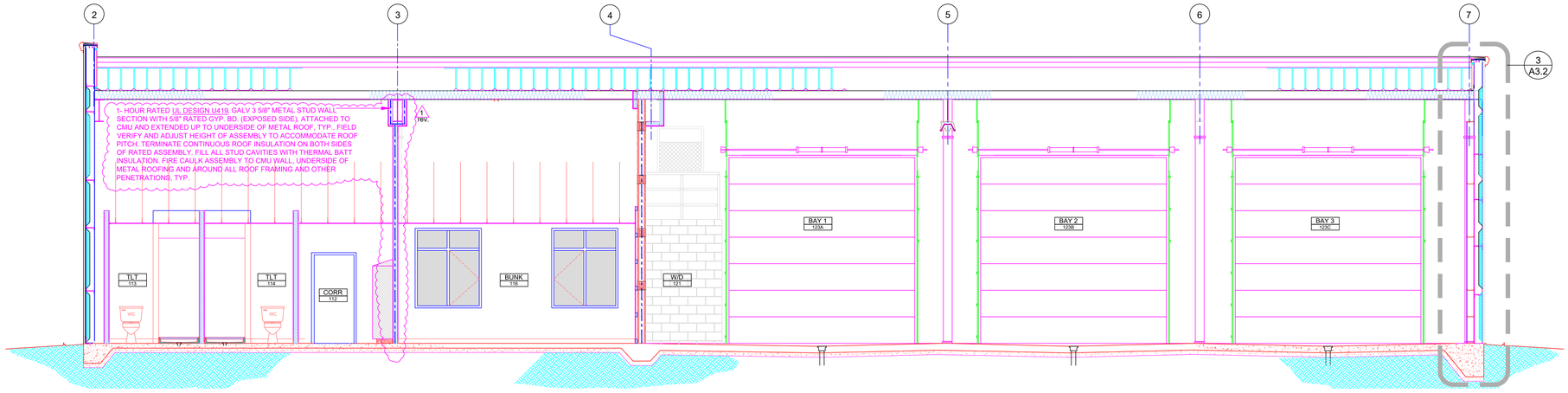
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SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24

SHEET TITLE
BUILDING SECTIONS
WALL SECTIONS

SHEET NO.
A3.0



1 A3.1 **BUILDING SECTION - ALTERNATE #1 - 4 TRUCK BAY**
SCALE: 1/4"=1'-0"

2 A3.1 **BUILDING SECTION - ALTERNATE #1 - 4 TRUCK BAY**
SCALE: 1/4"=1'-0"

3 A3.1 **WALL SECTION**
SCALE: 3/4"=1'-0"

4 A3.1 **WALL SECTION**
SCALE: 3/4"=1'-0"

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S.C.

PROJECT

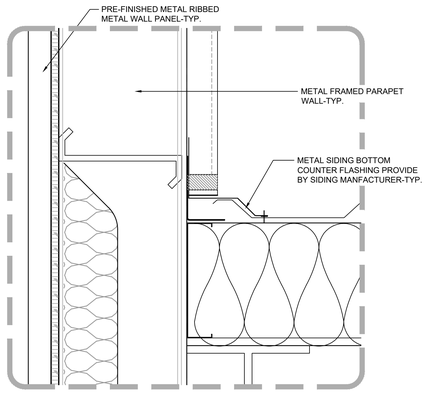
A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

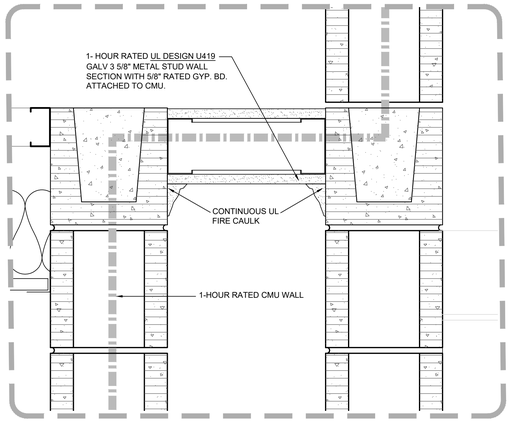
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DATE: 08-15-24
REVISION #1: 11-05-24

SHEET TITLE
BUILDING SECTIONS
WALL SECTIONS

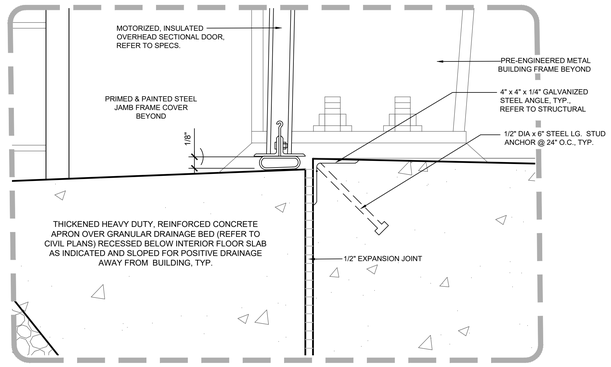
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A DETAIL A3.2 SCALE: 3"=1'-0"



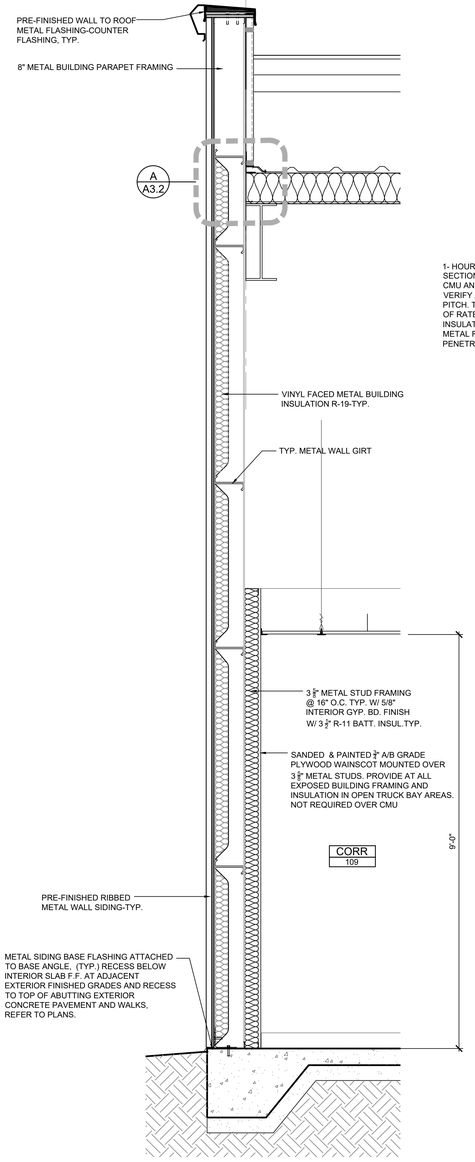
B DETAIL A3.2 SCALE: 3"=1'-0"



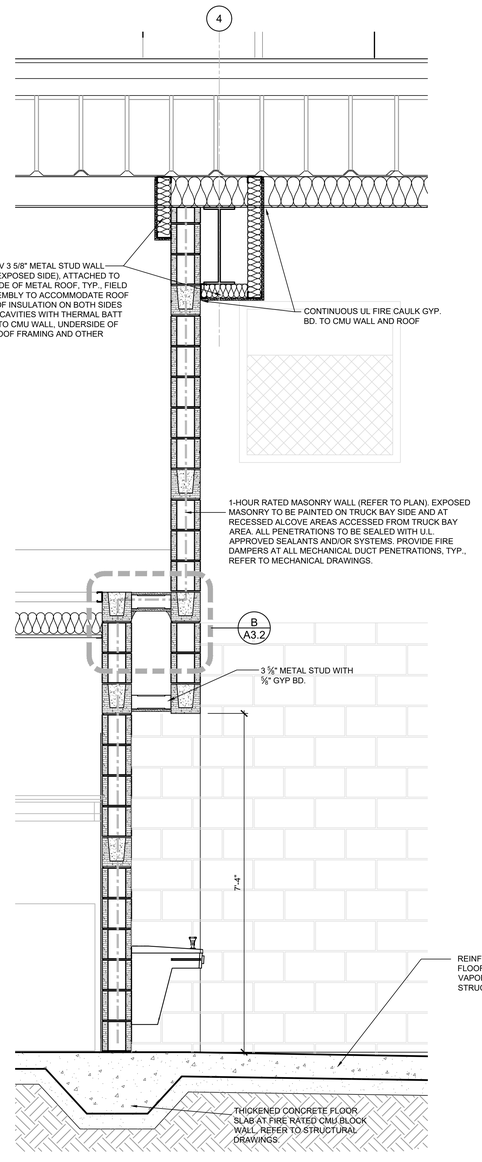
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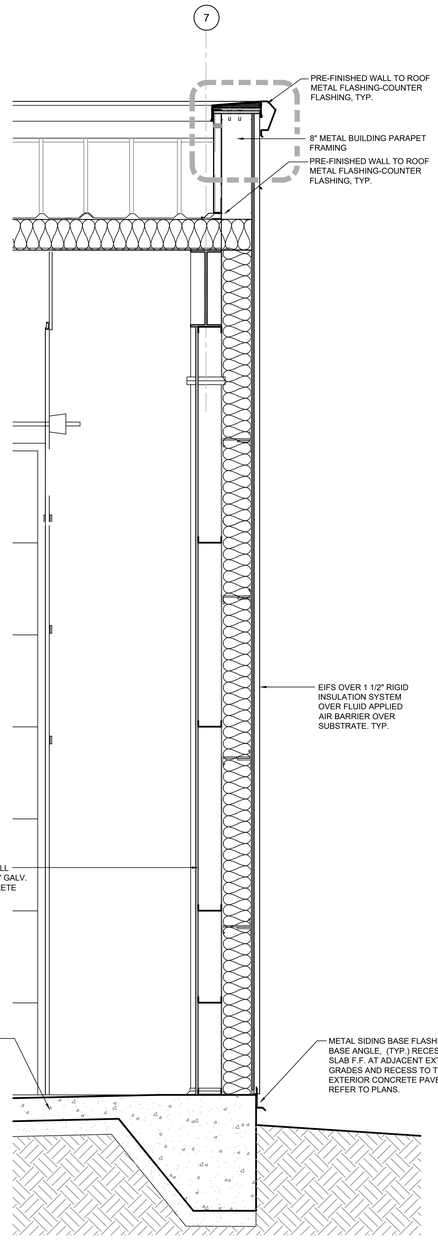
1. THROUGH WALL FLASHING @ GRADE TO BE STEPPED AS REQUIRED @ EXTERIOR CONCRETE WALKS AND STOOPS ADJACENT TO EXTERIOR MASONRY VENEER TO TERMINATE ABOVE HORIZONTAL CONCRETE SURFACES, TYP.
2. PROVIDE DAMPPROOFING AS SPECIFIED ON EXTERIOR SIDE OF ALL BUILDING CMU BLOCK BEHIND EXTERIOR VENEERING FROM TOP OF FOUNDATION TO TOP OF CMU WALLS, TYP.
3. 0.050" PRE-FINISHED ALUMINUM CAP WILL BE ACCEPTABLE IN LIEU OF THE 16-GAUGE PRE-FINISHED METAL AS INDICATED. ALL FLASHING CAPS SHALL BE INSTALLED WITH POSITIVE SLOPE AWAY FROM BUILDING AND NO LOW AREAS RESULTING IN "PONDING" ON TOP OF CAPS, TYP.
4. ALL SHEET METAL WORK TO COMPLY WITH "ARCHITECTURAL SHEET METAL MANUAL (SMACNA), LATEST EDITIONS. SUBMIT SHOP DRAWINGS FOR ALL SHEET METAL WORK TO ARCHITECT FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION AND INSTALLATION.
5. ALL FLASHING MATERIALS TO BE COMPATABLE WITH ADJACENT MATERIALS IN DIRECT CONTACT, TYP. ALL THROUGH WALL FLASHING TO BE 16 OZ COPPER WITH CONTINUOUS SOLDERED JOINTS, TYP. FLASHINGS OVER WALL OPENINGS TO EXTEND 6" MIN. PAST EACH SIDE OF OPENING, TYP.



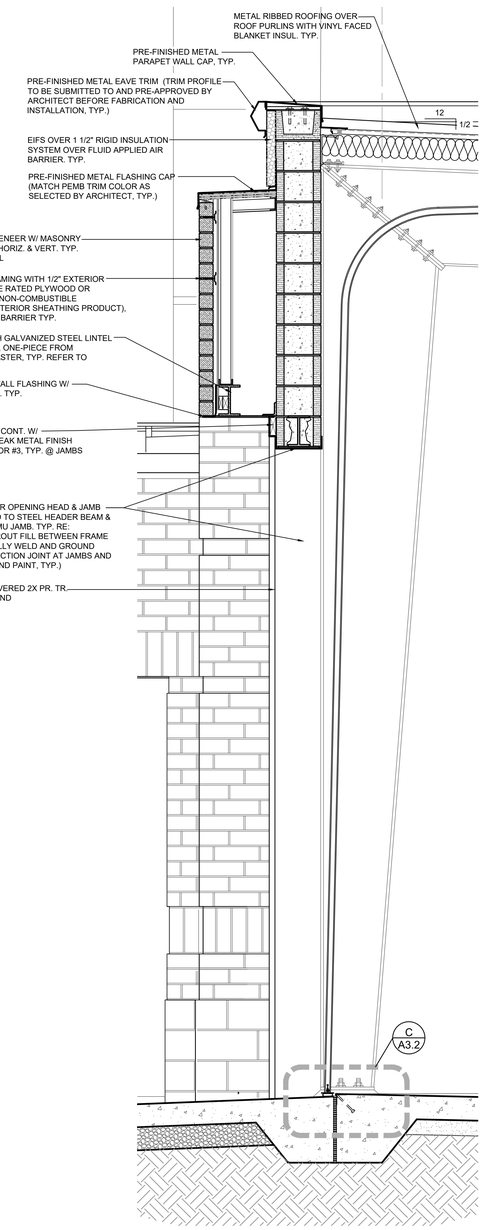
1 WALL SECTION A3.2 SCALE: 3/4"=1'-0"



2 WALL SECTION A3.2 SCALE: 3/4"=1'-0"



3 WALL SECTION A3.2 SCALE: 3/4"=1'-0"



4 WALL SECTION A3.2 SCALE: 3/4"=1'-0"

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STATE OF SOUTH CAROLINA — JOSEPH CHARLES PIKE — MYRTLE BEACH, S.C. 2717 — REGISTERED ARCHITECT

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

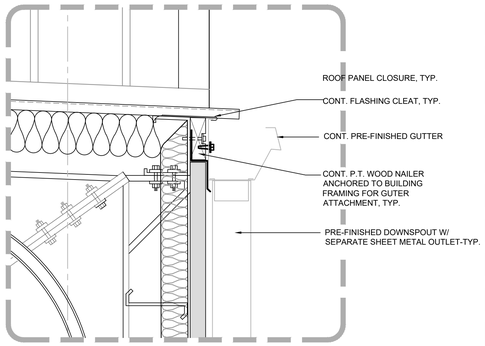
HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

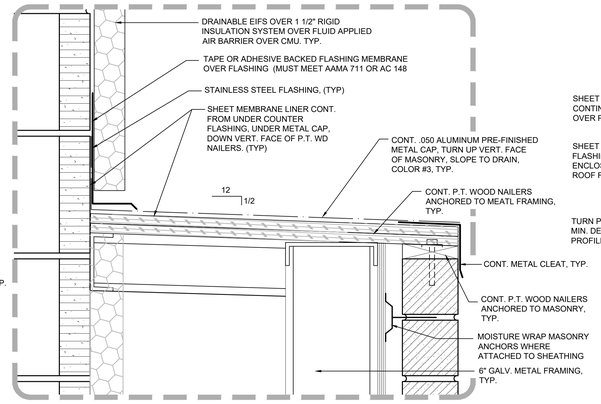
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CHECKED:
DATE: 08-15-24

SHEET TITLE
WALL SECTIONS

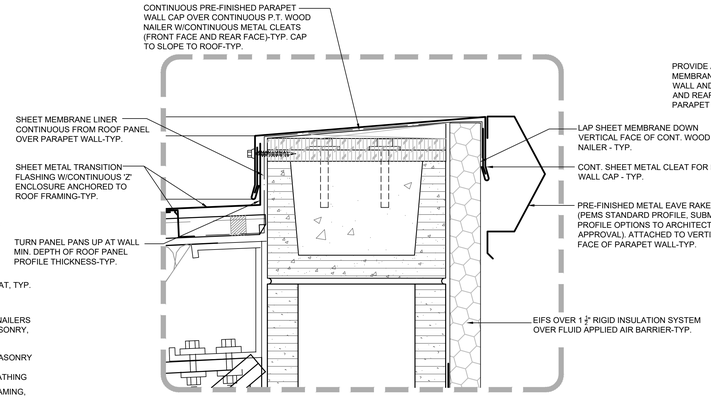
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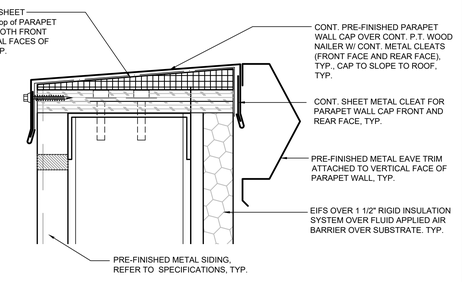
A DETAIL A3.3 SCALE: 3"=1'-0"



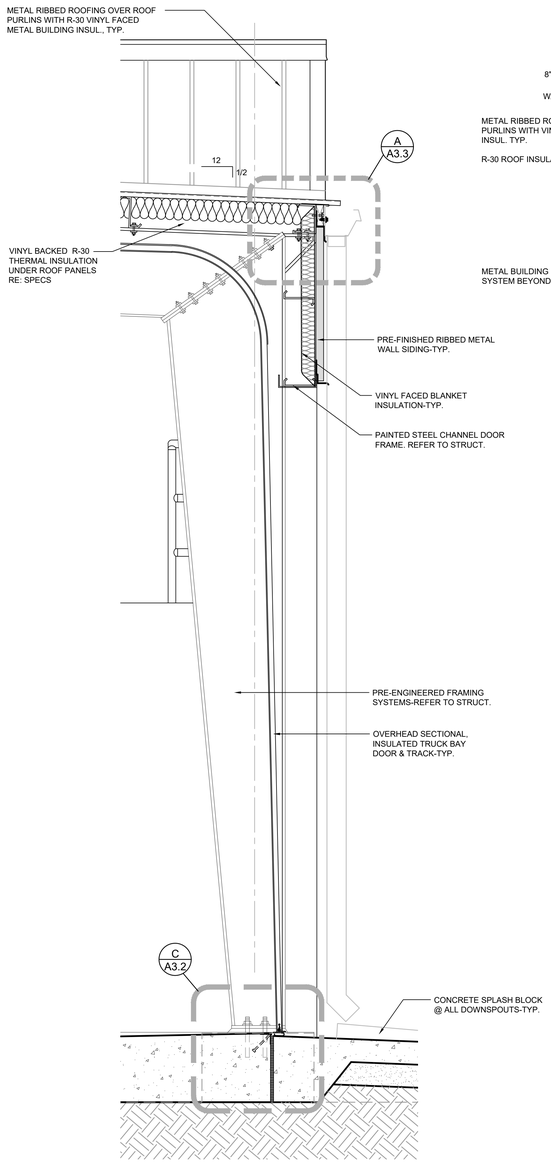
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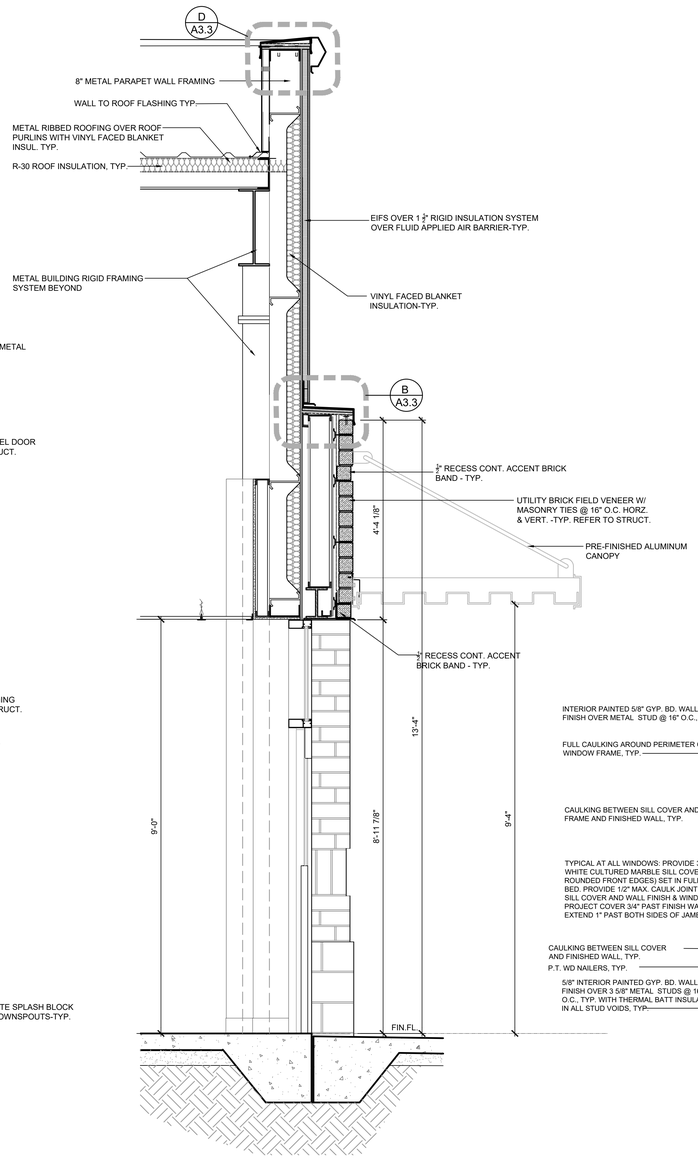
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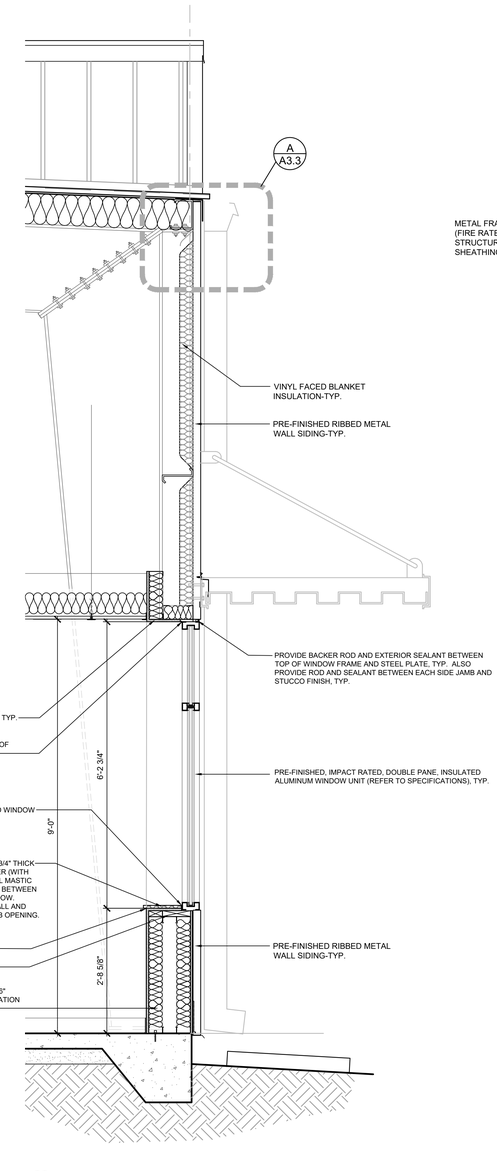
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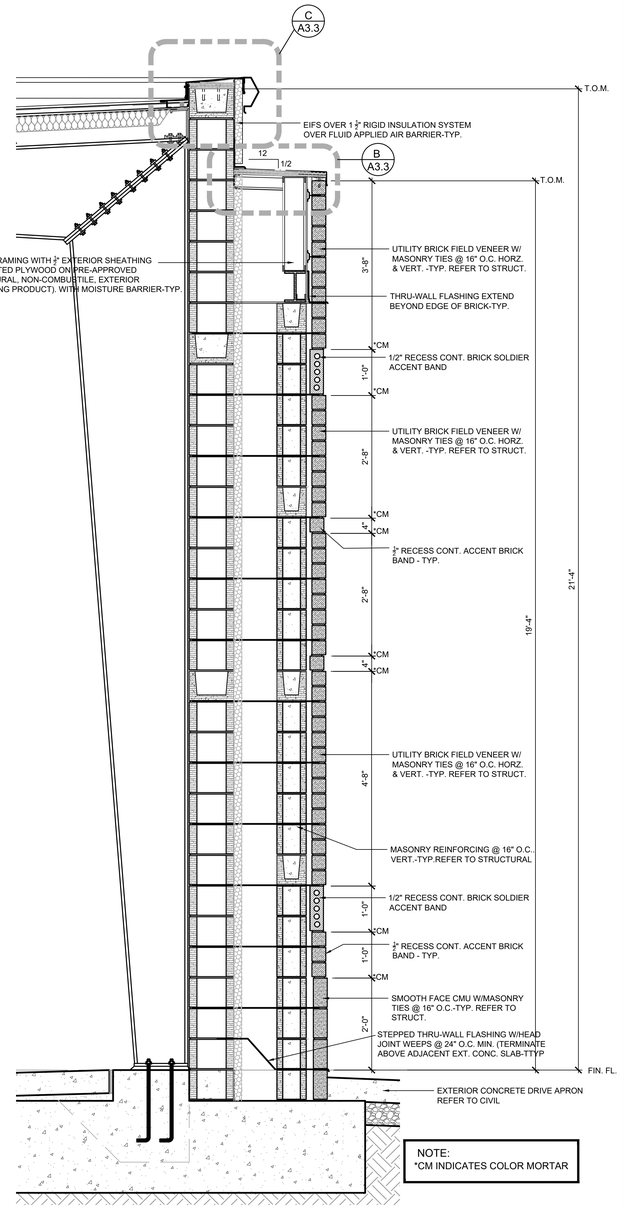
1 WALL SECTION A3.3 SCALE: 3/4"=1'-0"



2 WALL SECTION (AT DOOR 106) A3.3 SCALE: 3/4"=1'-0"



3 WALL SECTION (WINDOW AT BUNK ROOM) A3.3 SCALE: 3/4"=1'-0"



4 WALL SECTION A3.3 SCALE: 3/4"=1'-0"

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OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

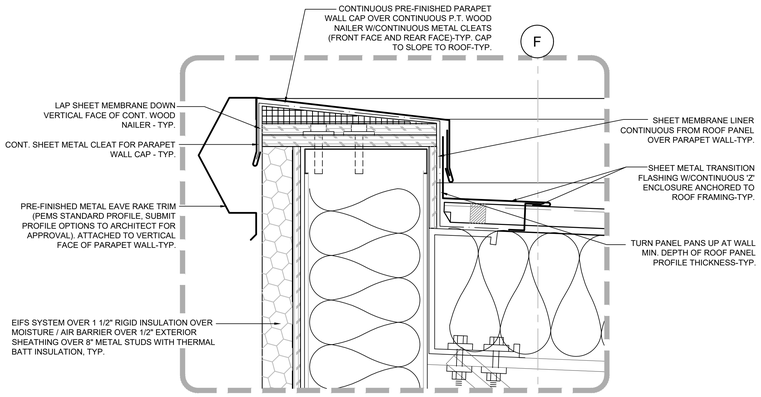
PROJECT NUMBER **24002**

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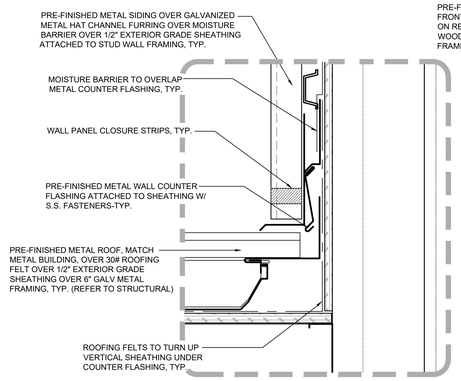
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SHEET TITLE **WALL SECTIONS**

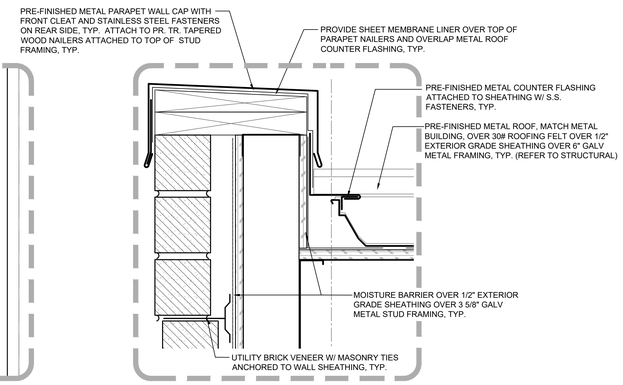
SHEET NO. **A3.3**



A DETAIL A3.4 SCALE: 3"=1'-0"



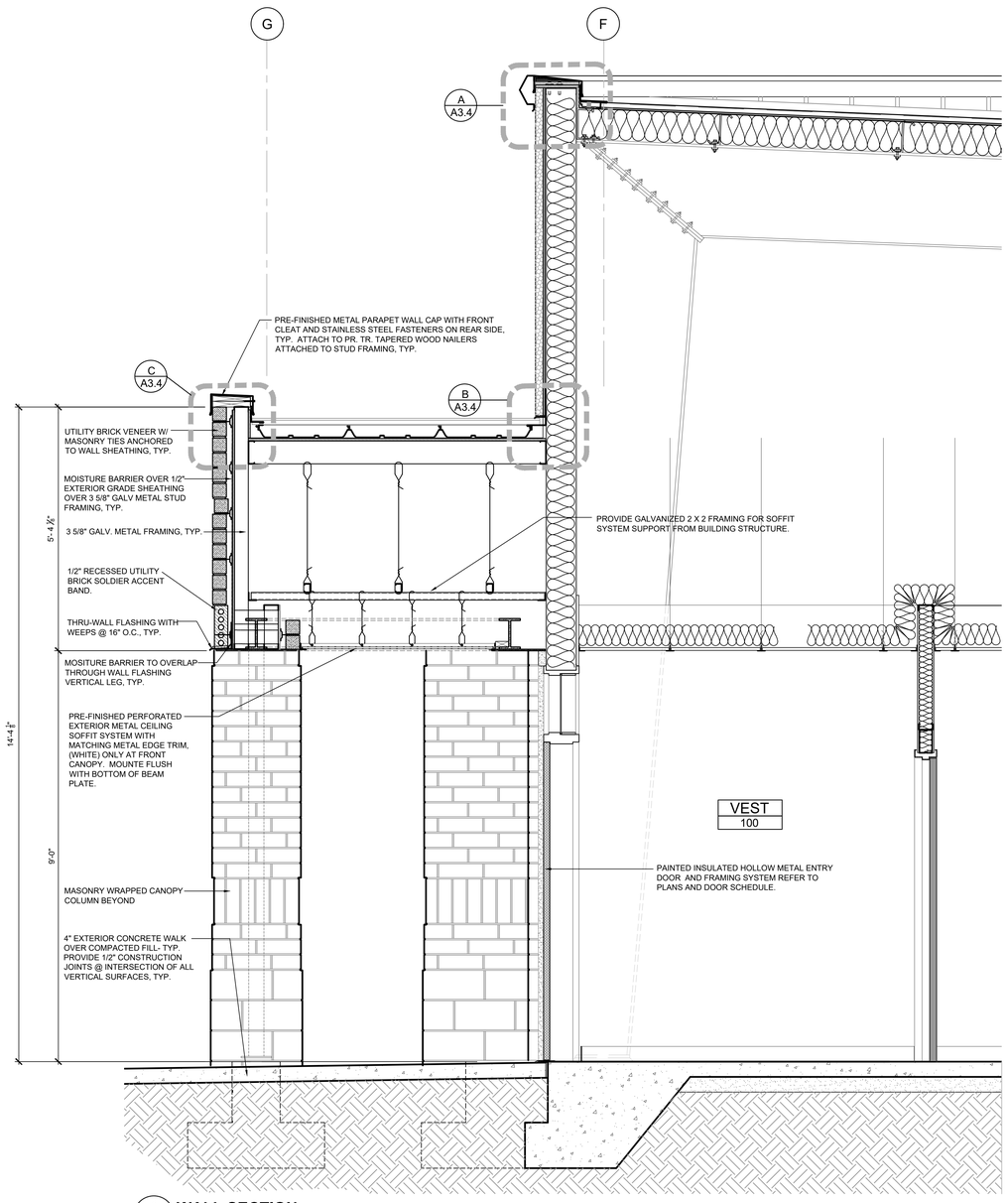
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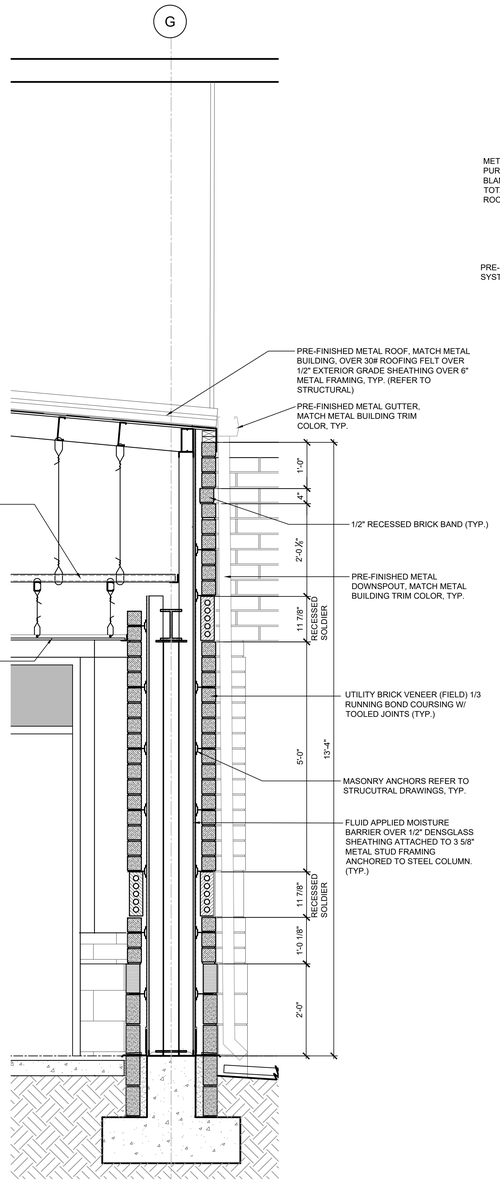
C DETAIL A3.4 SCALE: 3"=1'-0"

NOTE:

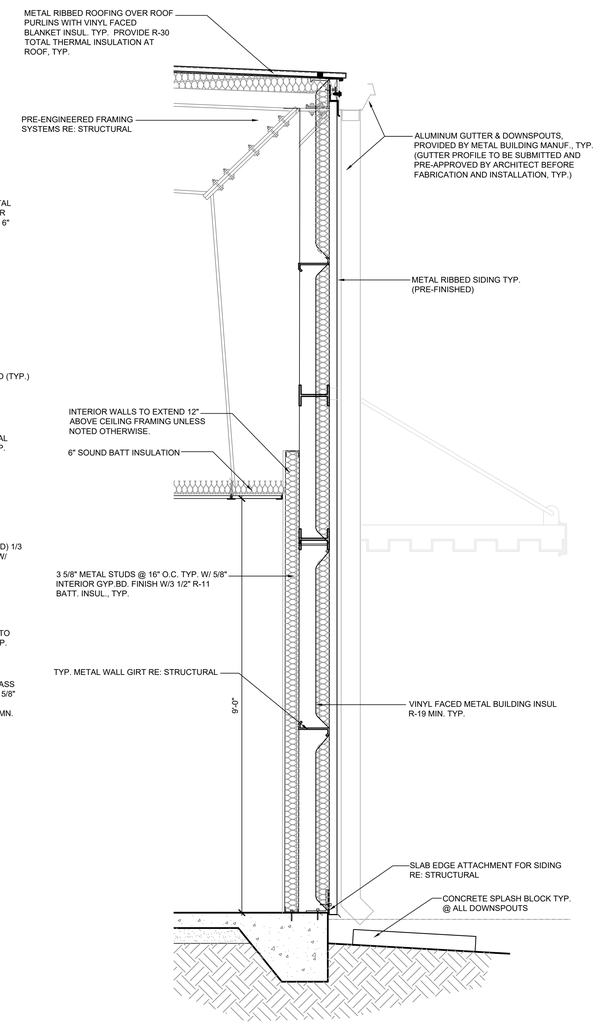
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2. PROVIDE DAMPPROOFING AS SPECIFIED ON EXTERIOR SIDE OF ALL BUILDING CMU BLOCK BEHIND EXTERIOR VENEERING FROM TOP OF FOUNDATION TO TOP OF CMU WALLS, TYP.
3. 0.050" PRE-FINISHED ALUMINUM CAP WILL BE ACCEPTABLE IN LIEU OF THE 16-GAUGE PRE-FINISHED METAL AS INDICATED. ALL FLASHING CAPS SHALL BE INSTALLED WITH POSITIVE SLOPE AWAY FROM BUILDING AND NO LOW AREAS RESULTING IN "PONDING" ON TOP OF CAPS, TYP.
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1 WALL SECTION A3.4 SCALE: 3/4"=1'-0"



2 SECTION AT COLUMN A3.4 SCALE: 3/4"=1'-0"



3 WALL SECTION (BUNK ROOM EXTERIOR WALL) A3.4 SCALE: 3/4"=1'-0"

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HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

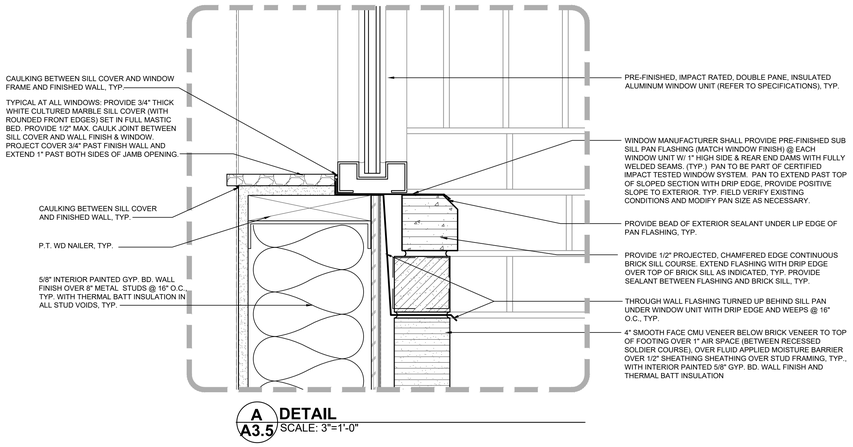
PROJECT NUMBER
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DATE: 08-15-24

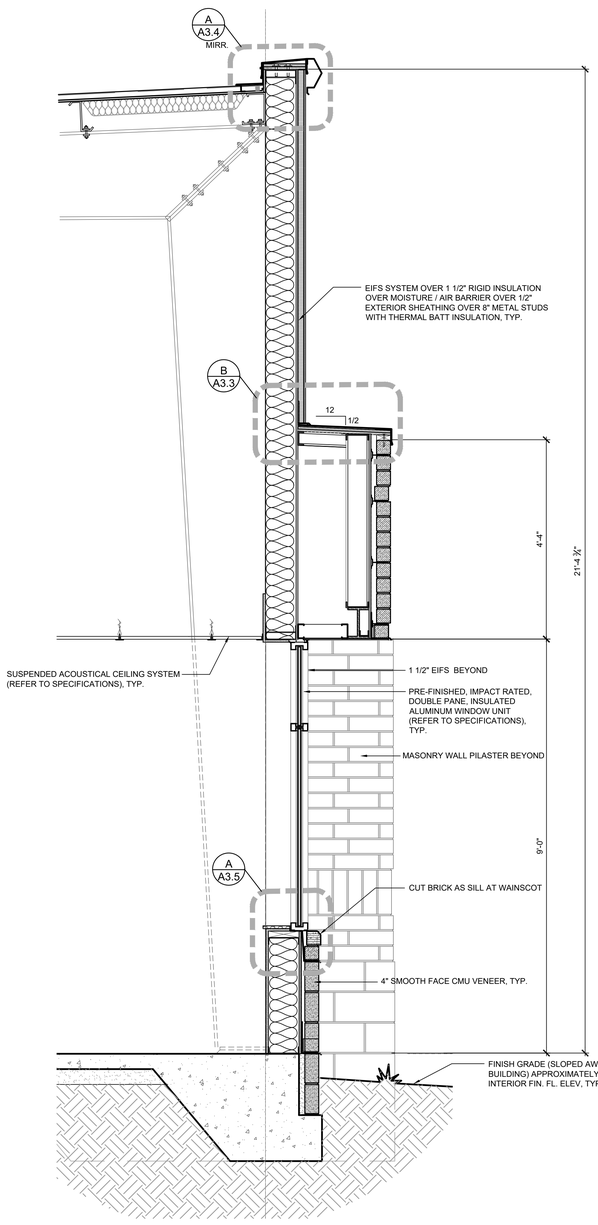
SHEET TITLE
WALL SECTIONS

SHEET NO.
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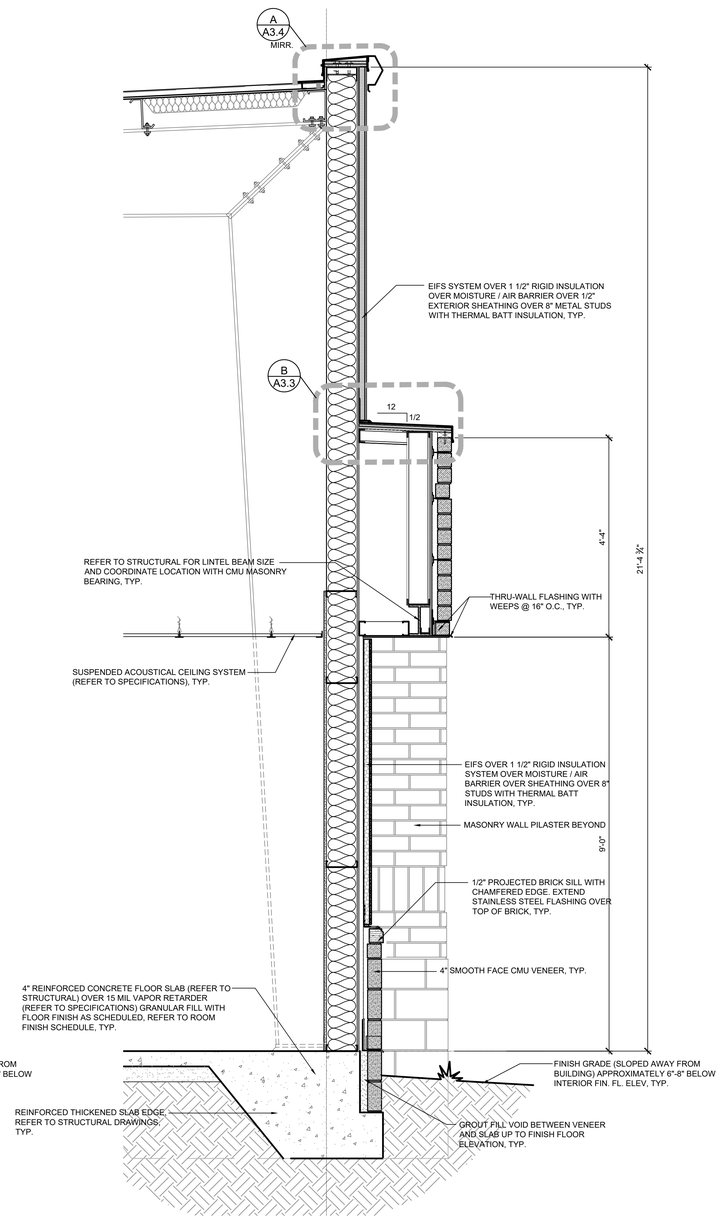
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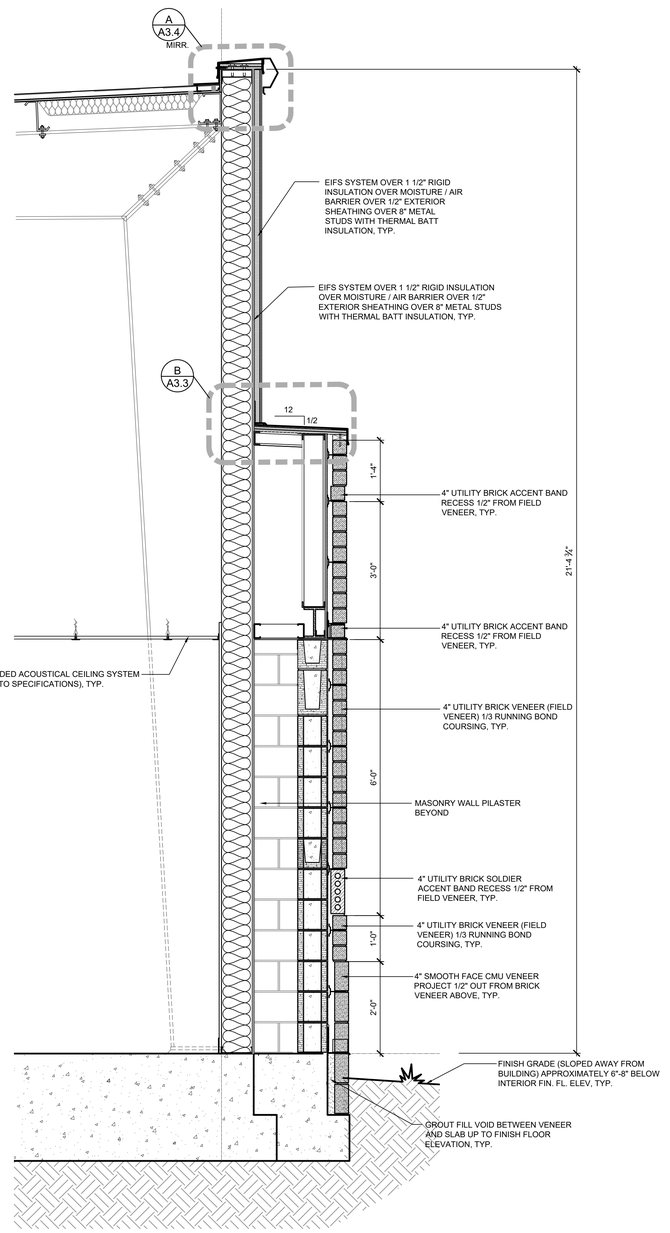
A A3.5 **DETAIL**
SCALE: 3"=1'-0"



1 A3.5 **WALL SECTION**
SCALE: 3/4"=1'-0"



2 A3.5 **WALL SECTION**
SCALE: 3/4"=1'-0"



3 A3.5 **WALL SECTION - FRONT PILASTER**
SCALE: 3/4"=1'-0"

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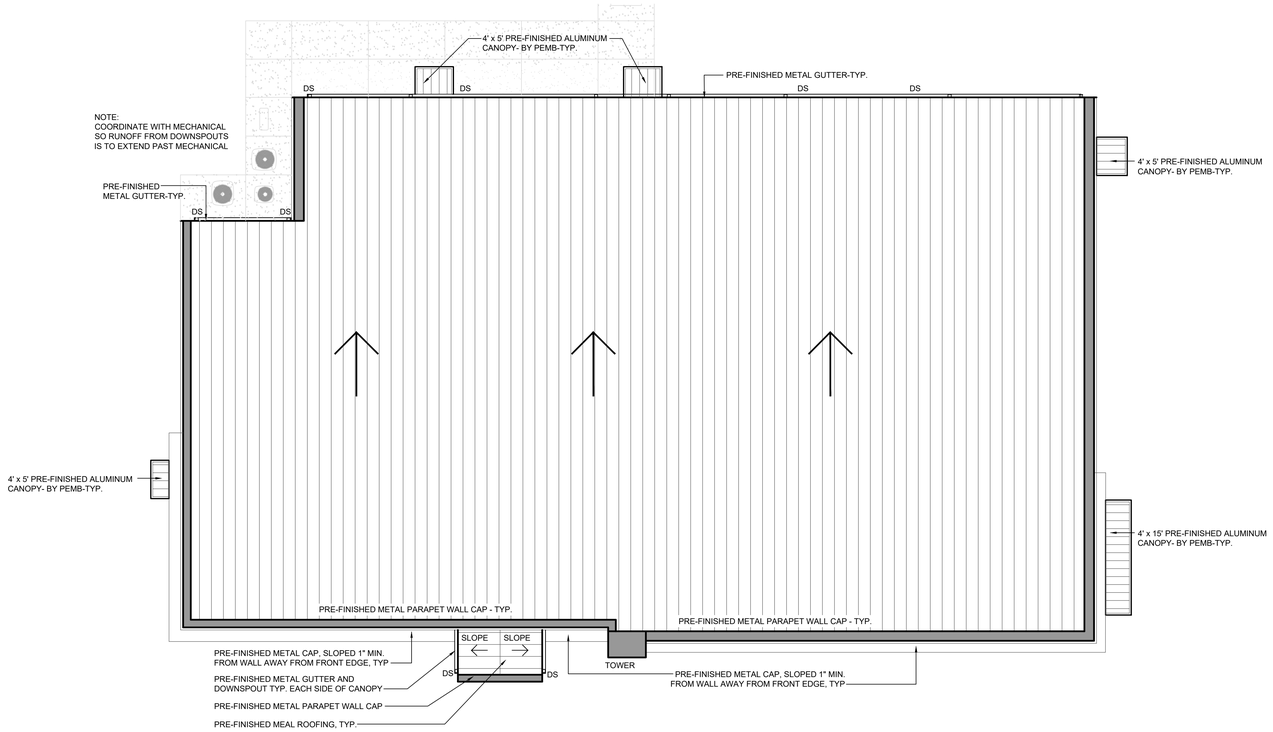
A NEW BUILDING REPLACEMENT FOR:
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HORRY COUNTY
SOUTH CAROLINA

PROJECT NUMBER
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DRAWN: DP
CHECKED:
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SHEET TITLE
WALL SECTIONS

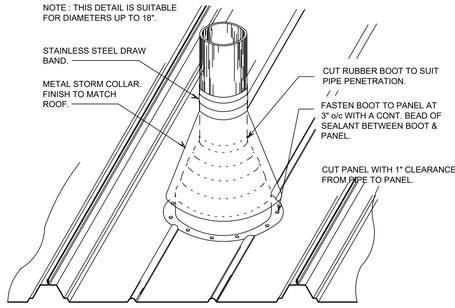
SHEET NO.
A3.5



1 A4.0 **ROOF PLAN - 3 TRUCK BAYS - BASE BID**
SCALE: 1/8"=1'-0"

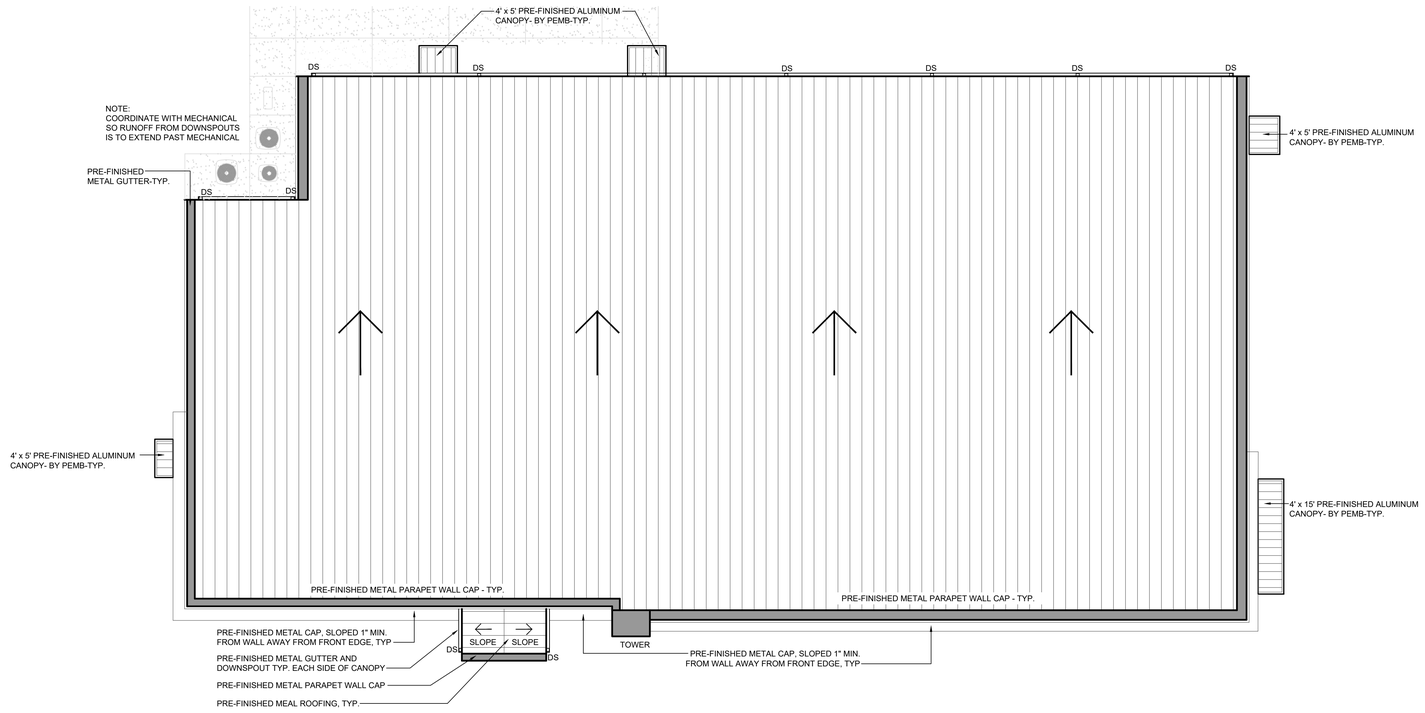
GENERAL ROOF NOTES:

1. VERIFY AND COORDINATE DOWNSPOUT LOCATIONS WITH EXTERIOR BUILDING TRIM, WALL OPENINGS, LOUVERS, ETC. (REFER TO EXTERIOR BUILDING ELEVATIONS.)
2. ARROWS INDICATE ROOF SLOPE DIRECTION TO GUTTERS, TYP.
3. PROVIDE CONCRETE SPLASH BLOCKS @ ALL DOWNSPOUTS, TYP.
4. PROVIDE FLASHING BOOTS AS SUPPLIED BY METAL ROOFING MANUFACTURER TO MEET ROOF WARRANTY FOR ALL ROOF PENETRATIONS.
5. PROVIDE PRE-FINISHED METAL CAPS FOR ALL PARAPET WALLS, TYP.
6. PROVIDE WALL TO ROOF FLASHING AND COUNTER FLASHING AS RECOMMENDED AND ACCEPTABLE TO METAL ROOFING MANUFACTURER TO MEET ROOF WARRANTY, TYP.

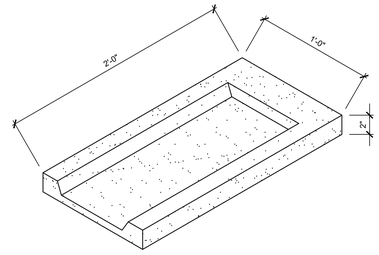


NOTE: THIS DETAIL IS TO BE USED WHEN THE PENETRATION IS LOCATED BETWEEN PANEL RIBS. CONTRACTOR SHALL NOT LOCATE ROOF PENETRATIONS THROUGH ANY PANEL RIBS AND SHALL LOCATE DISTANCE FROM RIB AS RECOMMENDED BY ROOFING MANUFACTURER, TYP. ALL ROOF SYSTEM COMPONENTS, IE: PIPE BOOTS, S.S. DRAW BANDS, ETC. SHALL BE PROVIDED BY THE METAL ROOFING MANUFACTURER AND INSTALLED BY THE ROOFING CONTRACTOR. PROVIDE ONLY MATERIALS COMPATABLE WITH ROOFING MATERIAL AS RECOMMENDED BY MANUFACTURER.

3 A4.0 **TYP. ROOF VENT DTL.**
SCALE: 3/16"=1'-0"



2 A4.0 **ROOF PLAN - 4TH TRUCK BAY - ALTERNATE #1**
SCALE: 1/8"=1'-0"



PRECAST CONCRETE SPLASHBLOCK. PROVIDE AT ALL VERTICAL ROOF DOWNSPOUTS ON GRADE. REFER TO PLANS

4 A4.0 **CONCRETE SPLASHBLOCK**
SCALE: 3/8"=1'-0"

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HORRY COUNTY SOUTH CAROLINA

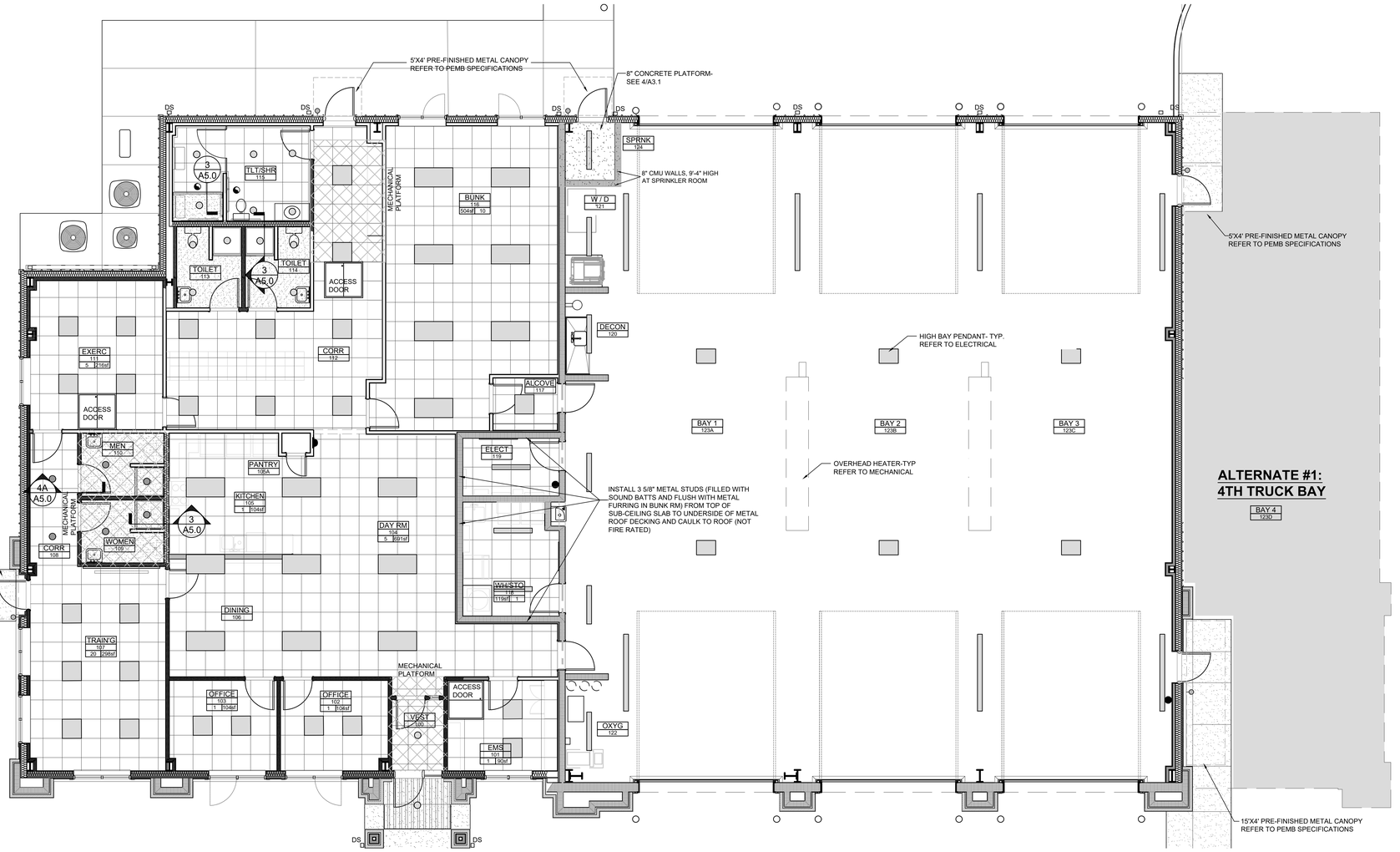
PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24

SHEET TITLE
Roof Plan

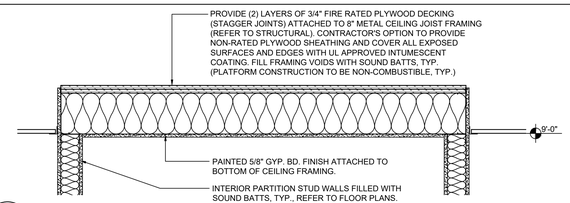
SHEET NO.
A4.0

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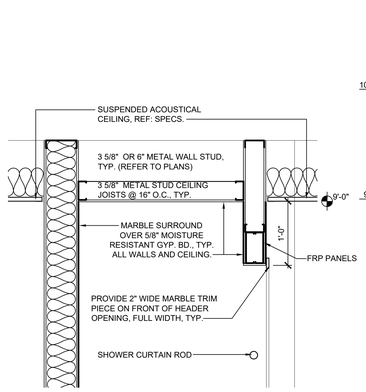


1 A5.0 REFLECTED CEILING PLAN
SCALE: 3/16"=1'-0"

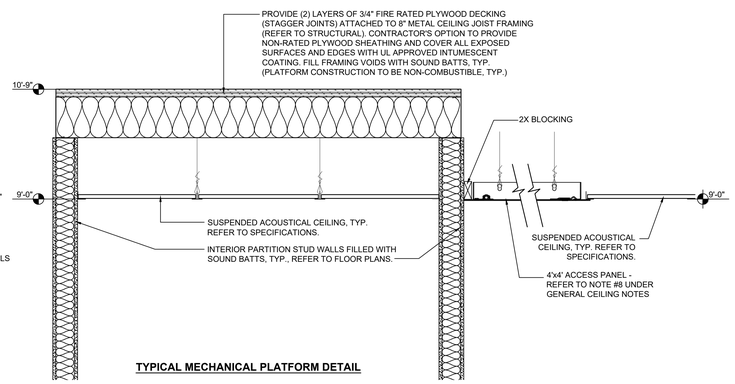
2 A5.0 RCP - 4TH TRUCK BAY
SCALE: 3/16"=1'-0"



4A A5.0 EQUIPMENT PLATFORMS ABOVE TOILETS 109 & 110
SCALE: 1"=1'-0"



3 A5.0 TYP. SHOWER CLG. HEADER
SCALE: 1"=1'-0"



TYPICAL MECHANICAL PLATFORM DETAIL

4B A5.0 EQUIPMENT PLATFORMS
SCALE: 1"=1'-0"

CEILING LEGEND:

- 2'x2' SUSPENDED ACOUSTICAL DROP IN CEILING, TYP.
- 2'x4' LAY IN FLUORESCENT LIGHT, TYP.
- 2'x2' LAY IN FLUORESCENT LIGHT, TYP.
- 8' OR 4' STRIP FLUORESCENT LIGHT, TYP. REFER TO ELECTRICAL PLANS
- RECESSED CEILING OR SOFFIT OR BAY LIGHT FIXTURE, TYP.
- SUSPENDED CEILING LIGHT FIXTURE, TYP.
- EXTERIOR WALL SCONCE

GENERAL CEILING NOTES:

1. VERIFY AND COORDINATE CEILING INSTALLATION WITH ALL FIXTURES, EQUIPMENT, ETC. AS INDICATED AND OR REQUIRED WITH THE PLUMBING, FIRE SPRINKLER, MECHANICAL, AND ELECTRICAL DRAWINGS.
2. ALL SUSPENDED CEILINGS TO BE 2' X2' AND MOUNTED @ 9'-0" A.F.F., TYP. (UNO), REFER TO SPECIFICATIONS.
3. ALL SUSPENDED CEILING SYSTEMS MOUNTED IN TOILET/SHOWER AREAS TO BE MOISTURE/MILDEW RESISTANT, U.N.O.
4. SUSPENDED CEILING SYSTEMS SHALL MEET MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 16 FOR A CATAGORY "D" CLASSIFICATION, REFER TO STRUCTURAL.
5. PROVIDE METAL JOIST FRAMED PLATFORMS FOR ALL MECHANICAL EQUIPMENT MOUNTED ABOVE THE FINISHED CEILING (REFER TO DETAIL 4A/A2.0 AND MECHANICAL PLANS). BOTTOM OF PLATFORM FRAMING ABOVE TOILETS 109 AND 110 TO BE MOUNTED AT 9'-0" ABOVE FINISH FLOOR AND AND PAINTED GYP. BD. CEILING FINISH TO BE APPLIED DIRECTLY TO JOISTS, TYP.
6. PROVIDE 4'x4' MIN. REMOVABLE SUSPENDED CEILING SECTIONS FOR SERVICE ACCESS TO ALL ABOVE CEILING MECHANICAL UNIT PLATFORMS, TYP. VERIFY AND COORDINATE QUANTITY AND LOCATION OF ACCESS WITH MECHANICAL DRAWINGS. OWNER TO APPROVE ALL ACCESS LOCATIONS.
7. PROVIDE METAL STUD HEADERS WITH PAINTED GYP. BD. FINISH WHERE INDICATED ON CEILING PLAN. BOTTOM OF FINISHED HEADERS TO BE 1" MIN. BELOW LOWEST ADJACENT CEILING FINISH, U.N.O.
8. PROVIDE 48"X48" DROP-IN CEILING ALUMINUM ACCESS DOOR BY WILLIAMS BROTHERS CORP, SERIES Model # TB 1210 AT ALL ABOVE CEILING EQUIPMENT PLATFORMS-TYP. LOCATIONS TO BE APPROVED BY OWNER.

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OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24

SHEET TITLE
Reflected Ceiling Plan Details

SHEET NO.
A5.0

ROOM FINISH SCHEDULE

ROOM NO.	SPACE NAME	FLOORS						BASE						WALLS						CEILING MATERIAL						CEILING HEIGHT				REMARKS
		POURED EPOXY FLOORING	SHEET VYL FLOORING	CARPET - DIRECT GLUE	SEALED CONCRETE	LVT FLOORING	RUBBER FLOORING	4" POURED EPOXY	4" RUBBER COVE BASE	NONE				PAINTED GYP. BD.	PAINTED CMU	PAINTED 8' H 3/4" PLYWOOD	PAINTED EXPOSED STRUCT.	FULL HEIGHT FRP (SEE PLAN)		2x2 LAY-IN SAC TILE - ACT 1	2x2 LAY-IN SAC TILE - ACT 2	PAINTED GYP. BD.	PAINTED EXP. STRUCTURE	PAINTED CONCRETE		9'-0" A.F.F.	8'-8" A.F.F.	VARIES	OTHER	
		1	2	3	4	5	6	1	2	3	4	5		1	2	3	4	5	6	1	2	3	4	5		1	2	3	4	
100	VESTIBULE	1						1						1						1						1				
101	EMS SUPPLIES	1						1						1						1						1				PROVIDE 3 5/8" METAL FURRING FOR GYP. BD. OVER CMU WALLS, TYP.
102	OFFICE	1						1						1						1						1				
103	OFFICE	1						1						1						1						1				
104	DAY ROOM	1						1						1						1						1				PROVIDE 3 5/8" METAL FURRING FOR GYP. BD. OVER CMU WALLS, TYP.
105	KITCHEN	1						1						1						1						1				
105A	PANTRY	1						1						1						1						1				
106	DINING	1						1						1						1						1				
107	TRAINING ROOM					5*			2					1						1						1				*SEE ADD ALTERNATE #3
108	CORRIDOR	1						1						1						1						1				
109	WOMEN	1						1										5				3				1				FULL HT. FRP WALL FINISH OUTSIDE EACH SHOWER STALL, TYP. (REFER TO PLAN))
110	MEN	1						1										5				3				1				FULL HT. FRP WALL FINISH OUTSIDE EACH SHOWER STALL, TYP. (REFER TO PLAN))
111	EXERCISE						6		2					1						1						1				
112	CORRIDOR	1						1						1						1						1				
113	TOILET	1						1										5			2					1				FULL HT. FRP WALL FINISH OUTSIDE EACH SHOWER STALL, TYP. (REFER TO PLAN))
114	TOILET	1						1										5			2					1				FULL HT. FRP WALL FINISH OUTSIDE EACH SHOWER STALL, TYP. (REFER TO PLAN))
115	TOILET/SHOWER	1						1										5			2					1				FULL HT. FRP WALL FINISH OUTSIDE EACH SHOWER STALL, TYP. (REFER TO PLAN))
116	BUNK ROOM					5*			2					1						1						1				*SEE ADD ALTERNATE #3
117	ALCOVE					5*			2					1						1						1				*SEE ADD ALTERNATE #3
118	WATER HEATER/ STORAGE				4				2					1						1						1				
119	ELECTRICAL				4				2						2					1						1				
120	DECON STATION				4					3				2									4					3		
121	WASHER/DRYER				4					3				2									4					3		
122	OXYGEN TANKS				4					3				2									4					3		
123A	TRUCK BAY-1				4					3				2									4					3		
123B	TRUCK BAY-2				4					3				2									4					3		
123C	TRUCK BAY-3				4					3				2									4					3		
123D	TRUCK BAY-4 (ALTERNATE #1)				4					3				2									4					3		
124	FIRE SPRINKLER RISER				4					3				2								3						2*		9'-4" TOP OF CONCRETE PLATFORM

TYPICAL NOTES:

1. PROVIDE 3" SOUND ATTENUATION BATT INSULATION IN ALL INTERIOR STUD WALLS BETWEEN SPACES.
2. PROVIDE CEILING MOUNTED 3" SOUND ATTENUATION BATT INSULATION, 24" WIDE IN EACH SIDE OF INTERIOR PARTITION WALLS NOT SEALED TO ROOF DECKING, TYP.
3. PROVIDE 3 5/8" STUD FURRING (ORIENTED FLAT) ON CONDITIONED SIDE OF CMU BLOCK WALLS, TYP.

FINISH SCHEDULE NOTES:

1. PROVIDE VINYL REDUCER STRIPS AT INTERSECTIONS OF FLOORS OF DISSIMILAR MATERIALS EXCEPT WHERE OTHERWISE NOTED.
2. WALLS NOT INDICATED TO EXTEND TO ROOF DECK SHALL EXTEND 8" MINIMUM ABOVE HIGHEST ADJACENT FINISHED CEILING.
3. PROVIDE R-30 BATT INSULATION AT ROOF FRAMING OVER LIVING AREAS AND R-19 BATT INSULATION IN ALL EXTERIOR STUD WALLS AROUND PERIMETER OF LIVING QUARTERS. PROVIDE 3 1/2" SOUND BATT INSULATION IN ALL INTERIOR WALLS TYP. ALSO, PROVIDE 6" SOUND ATTENUATION BATT INSULATION 24" WIDE MIN. AROUND PERIMETER AND ON EACH SIDE OF ALL INTERIOR WALLS, TYP.
4. FORWARD ALL COLOR MATERIAL AND FINISH SAMPLES TO THE ARCHITECT PER SPECIFICATION SECTION 01300 FOR REVIEW AND SELECTION, TYP.
5. PROVIDE 5/8" GYPSUM BOARD FINISH IN ALL INTERIOR LIVING AREAS OVER 1 1/2" METAL WALL FRAMING OR ON 3 5/8" METAL FURRING (ORIENTED FLAT) AGAINST CMU WALLS, TYP.
6. PROVIDE 3/4" PAINTED A/B GRADE PLYWOOD WAINSCOT MOUNTED ON 3 5/8" GALVANIZED METAL STUD FRAMING AT 16" O.C., TYP., ALONG ENTIRE TRUCK BAY ENDWALL ONLY, TO PROTECT PEMB ENDWALL FRAMING. WALL FRAMING TO BE ANCHORED TO PEMB WALL GIRTS AND FURRED AROUND STEEL COLUMNS AND BOTH STUDS AND PLYWOOD TO EXTEND TO UNDERSIDE OF THE PEMB ROOF FRAMING.
7. ALL EXPOSED METAL FRAMING AND ACCESSORIES IN TRUCK BAY AREAS SHALL RECEIVED PAINTED FINISH.
8. CONCRETE SLAB AT TRUCK BAY AREAS AND TOILET/BATH SHOWER STALLS SHALL BE SLOPED TO FLOOR DRAINS FROM ALL DIRECTION. REFER TO FOUNDATION PLANS. CONCRETE FLOOR SLABS AT PRE-FINISHED SHOWER UNITS SHALL BE RECESSED AS REQUIRED TO PROVIDE 1/2" MAXIMUM STEP FROM SHOWER FLOOR TO TOILET FINISH FLOOR. COODRINATE AND VERIFY WITH PROVIDED PRODUCT MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE EPOXY PAINT OVER MOISTURE RESISTANT GYP. BD. IN ALL TOILET/SHOWER AND SPRINKLER RISER SPACES, TYP.

ALTERNATES:

1. ADD ALTERNATE NUMBER ONE (REFER TO SHEET A1.1)

CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING , MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE THIRD TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.

2. ADD ALTERNATE NUMBER TWO

CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO PROVIDE AND INSTALL A STATIONARY DIESEL EMERGENCY POWER GENERATOR WITH PERMANENT CONNECTIONS TO BUILDING SYSTEMS AS INDICATED ON THE PME DRAWINGS AND SPECIFICATIONS. IF ALTERNATE IS NOT ACCEPTED, CONTRACTOR SHALL PROVIDE A TRANSFER SWITCH FOR PORTABLE GENERATOR

3. ADD ALTERNATE NUMBER THREE

CONTRACTOR SHALL STATE PRICE DIFFERENCE, WHICH WOULD REPRESENT ALL LABOR AND MATERIALS TO PROVIDE A POURED EPOXY FLOOR FINISH IN SPACE 116 BUNK ROOM AND IN SPACE 117 ALCOVE IN LIEU OF LAMINATED VINYL PLANK (LVP) AS INDICATED ON THE ROOM FINISH SCHEDULE SHEET A4.0. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED AS INDICATED ON THESE CONSTRUCTION DOCUMENTS.

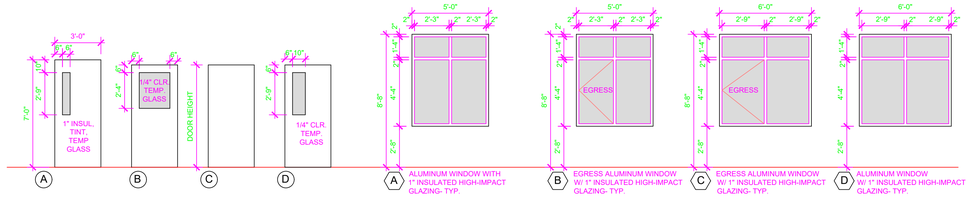
DOOR SCHEDULE

NO.	DOOR TO SPACE	DOOR FROM SPACE	DOOR WIDTH 3'-0"	DOOR WIDTH 2'-6"	DOOR WIDTH OTHER	DOOR HEIGHT 6'-8"	DOOR HEIGHT 7'-0"	DOOR HEIGHT OTHER	DOOR THICKNESS 1 3/4"	DOOR THICKNESS OTHER	DOOR MATERIAL AL	DOOR MATERIAL WSC	DOOR MATERIAL HM	DOOR MATERIAL OTHER	ELEV.	FRAME ELEV.	FRAME MATERIAL AL	FRAME MATERIAL HM	FRAME MATERIAL OTHER	FRAME HT	JAMB SECT	HEAD SECT	LABEL (HRS.) 3	LABEL (HRS.) 1.5	LABEL (HRS.) 3/4	THRSH AL	THRSH OTHER	CLOSER	WEATHERSTRIPPING	INSULATED	LABO BEADER	REMARKS	NO.
100	EXTER	VEST 100	○				○		○				○		A	1		○		8'-8"	J-4	H-4				○		○	○	○	○		100
101	VEST 100	DAY RM 104	○			○			○			○			A	1		○		8'-8"	J-3	H-3				○		○	○			SIMILAR FRAME TO TYPE #1 EXCEPT AT INTERIOR METAL STUD WALL	101
102	EMS 101	DAY RM 104	○			○			○			○			B	2		○		6'-10"	J-3	H-3											102
103	OFFICE 102	DINING 106	○			○			○			○			B	2		○		6'-10"	J-3	H-3											103
104	OFFICE 103	DINING 106	○			○			○			○			B	2		○		6'-10"	J-3	H-3											104
105	DINING 106	TRAING 107	○			○			○			○			D	2		○		6'-10"	J-3	H-3										FLOOR MOUNTED STOP	105
106	EXTER	TRAING 107	○				○		○				○		C	5		○		COORD W/ METAL BLDG STANDARD TRIM DTLS						○		○	○	○		INSULATED EXTERIOR METAL DOOR	106
107	TOILET 109	CORR 108	○			○			○			○			C	2		○		6'-10"	J-3	H-3						○				FLOOR MOUNTED STOP	107
108	TOILET 110	CORR 108	○			○			○			○			C	2		○		6'-10"	J-3	H-3						○				FLOOR MOUNTED STOP	108
109	CORR 108	EXERC 111	○			○			○			○			A	2		○		6'-10"	J-3	H-3										FLOOR MOUNTED STOP	109
110	CORR 112	EXERC 111	○			○			○			○			C	2		○		6'-10"	J-3	H-3										FLOOR MOUNTED STOP	110
111	TOILET 113	CORR 112	○			○			○			○			C	2		○		6'-10"	J-3	H-3						○				FLOOR MOUNTED STOP	111
112	TOILET 114	CORR 112	○			○			○			○			C	2		○		6'-10"	J-3	H-3						○				FLOOR MOUNTED STOP	112
113	TOILET 115	CORR 112	○			○			○			○			C	2		○		6'-10"	J-3	H-3						○				FLOOR MOUNTED STOP FLOOR MOUNTED STOP	113
1 rev. 114	EXTER	CORR 112	○				○		○				○		C	2		○		COORD W/ METAL BLDG STANDARD TRIM DTLS						○		○	○	○		INSULATED EXTERIOR METAL DOOR	114
115	BUNK 117	CORR 112	○			○			○			○			C	2		○		6'-10"	J-3	H-3			○							FLOOR MOUNTED STOP	115
	PANTRY	KITCHEN 105		2'-0"		○			○			○			C	2		○		6'-10"	J-3	H-3											
116	105A																																116
117	ALCOVE 117	BUNK 117	○			○			○			○			C	2		○		6'-10"	J-3	H-3						○	○				117
118	ALCOVE 117	T. BAY 123A	○				○		○				○		A	2		○		7'-4"				○	○			○	○			INSULATED HOLLOW METAL DOOR	118
119	ELEC. 119	T. BAY 123A	○				○		○				○		C	2		○		7'-4"				○	○			○				HOLLOW METAL DOOR	119
120	T. BAY 123A	WH/STO 119	○				○		○				○		C	2		○		7'-4"				○	○			○	○			HOLLOW METAL DOOR	120
121	TRUCK BAY	DAY RM 104	○				○		○				○		C	2		○		7'-4"				○	○			○	○			INSULATED HOLLOW METAL DOOR W/CONT. HINGE	121
122	EXTER	TRUCK BAY			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	122
123	EXTER	TRUCK BAY			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	123
124	EXTER	TRUCK BAY			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	124
125	EXTER	TRUCK BAY	○			○			○				○		C	2		○		COORD W/ METAL BLDG STANDARD TRIM DTLS						○		○	○	○	○	INSULATED EXTERIOR METAL DOOR	125
126	EXTER	TRUCK BAY	○			○			○				○		C	2		○		COORD W/ METAL BLDG STANDARD TRIM DTLS						○		○	○	○	○	INSULATED EXTERIOR METAL DOOR	126
127	TRUCK BAY	EXTER			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	127
128	TRUCK BAY	EXTER			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	128
129	TRUCK BAY	EXTER			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	129
130	EXTER	RISER 119	○				○			○				○	C	2			○	COORD W/ METAL BLDG STANDARD TRIM DTLS						○		○	○	○		INSULATED EXTERIOR METAL DOOR	130
ALT #1 131	TRUCK BAY	EXTER			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	ALT #1 131
ALT #1 132	TRUCK BAY	EXTER			14'-0"			14'-0"		○	OVERHEAD INSULATED METAL DOOR, REFER TO SPECIFICATIONS				4	4			REFER TO WALL SECTIONS AT TRUCK BAY DOOR												ELECTRICALLY OPERATED OVERHEAD DOOR W/ SITE GLASS AND WALL MOUNTED MOTOR OPERATOR, TYP.	ALT #1 132

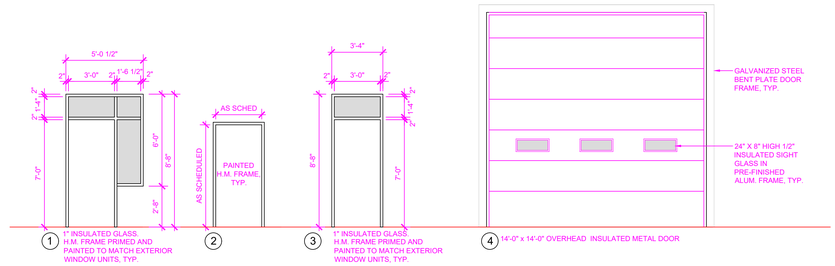
ABBREVIATIONS: AL - ALUMINUM; WSC - WOOD SOLID CORE; HM - HOLLOW METAL; ELEV. - ELEVATION; HT - HEIGHT; THRSH - THRESHOLD

DOOR AND WINDOW NOTES:

1. HOLLOW METAL DOORS TO BE WRAP- AROUND STYLE, FULY WELDED AND PAINTED. (KNOCK-DOWN FRAMES NOT ALLOWED.)
2. WOOD DOORS TO BE RED-OAK, PLAIN SLICED, PRE-FINISHED AND PRE-MACHINED FOR ALL HARDWARE.
3. PROVIDE FULL WEATHERSTRIPPING ON ALL EXTERIOR DOORS AND DOORS BETWEEN TRUCK BAYS AND LIVING QUARTERS.
4. PROVIDE THRU-WALL FLASHING AND WEEP HOLES ABOVE ALL EXTERIOR DOORS, WINDOWS, AND OTHER OPENINGS IN EXTERIOR MASONRY WALLS.
5. FIELD VERIFY ROUGH OPENINGS AND COORDINATE FINISHED WALL THICKNESS FOR EACH DOOR AND WINDOW FRAME BEFORE FABRICATION, TYP.
6. PROVIDE CONTINUOUS ONE-PIECE PAINTED GALVANIZED LINTEL PLATE AT ALL EXPOSED MASONRY OPENINGS AND AT ALL DOOR AND WINDOW OPENINGS
7. FULLY GROUT HOLLOW METAL FRAMES AT ALL CMU WALLS, TYP. COORDINATE WITH OTHER TRADES TO BE SURE PATHWAYS ARE IN PLACE PRIOR TO GROUTING IN.
8. WINDOW TYPE 'B' SHALL BE SAME AS WINDOW TYPE 'A' EXCEPT ONE LOWER SECTION SHALL BE OPERABLE AS REQUIRED BY CODE FOR "EMERGENCY ESCAPE AND RESCUE" FROM SLEEPING QUARTERS. OPENING SIZE SHALL BE DESIGNED FOR MINIMUM CLEAR AS REQUIRED BY THE LATEST EDITION OF THE CURRENT CODE. OVERALL WINDOW UNIT SIZE SHALL BE MAINTAINED TO MATCH WINDOW TYPE 'A' AND VERTICAL MULLION SHALL BE ADJUSTED AS REQUIRED TO ACCOMMODATE ESCAPE CLEARANCE. WINDOW UNIT SHALL BE CODE APPROVED FOR "EGRESS ESCAPE" NO EXCEPTION.
9. VERIFY AND COORDINATE SITE GLASS SIZE, ORIENTATION AND MOUNTING HEIGHT IN ALL DOORS FOR ADA COMPLIANCE, TYP.
10. ALL EXTERIOR DOOR AND WINDOW UNITS SHALL BE DESIGNED TO MEET MINIMUM CODE REQUIRED IMPACT RESISTANT LOADS FOR PROJECT LOCATION, TYP.
11. REFER TO TRUCK BAY ALTERNATE LIST TO CONFIRM ADDITION OR OMMISSION OF OVERHEAD DOORS BASED UPON ACCEPTANCE OF TRUCK BAY ALTERNATE BY OWNER.



1 / A6.0 DOOR / WINDOW ELEVATIONS
SCALE: 1/4"=1'-0"



2 / A6.0 FRAME ELEVATIONS
SCALE: 1/4"=1'-0"

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STATE OF SOUTH CAROLINA — JOSEPH CHARLES PIKE — MYRTLE BEACH, S.C. 2717 — REGISTERED ARCHITECT

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

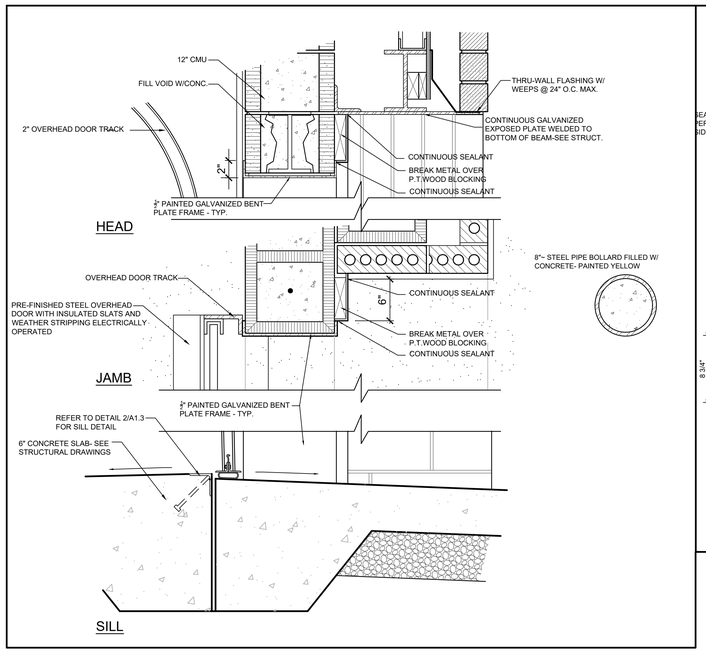
PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24
REVISION #1: 11-05-24

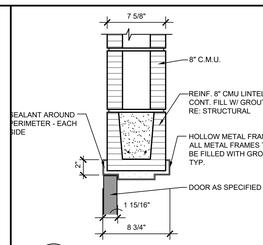
SHEET TITLE
SCHEDULES DOOR / WINDOW ELEVATIONS

SHEET NO.
A6.0

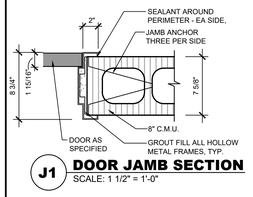
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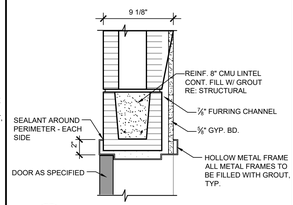
1 A6.1 **TYP. ROLL-UP DOOR DTL. @ TRUCK BAYS**
SCALE: 1 1/2"=1'-0"



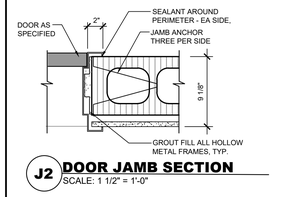
H1 **DOOR HEAD SECTION**
SCALE: 1 1/2" = 1'-0"



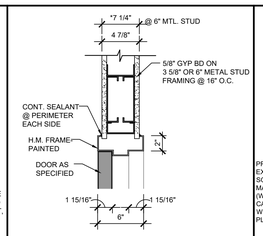
J1 **DOOR JAMB SECTION**
SCALE: 1 1/2" = 1'-0"



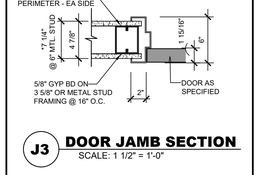
H2 **DOOR HEAD SECTION**
SCALE: 1 1/2" = 1'-0"



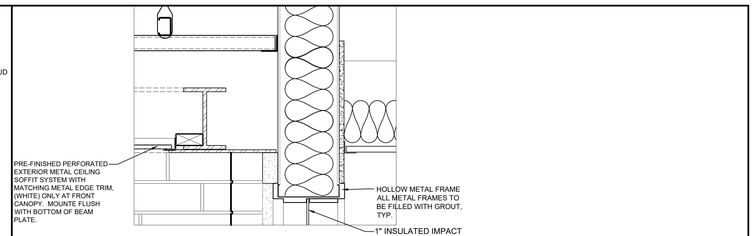
J2 **DOOR JAMB SECTION**
SCALE: 1 1/2" = 1'-0"



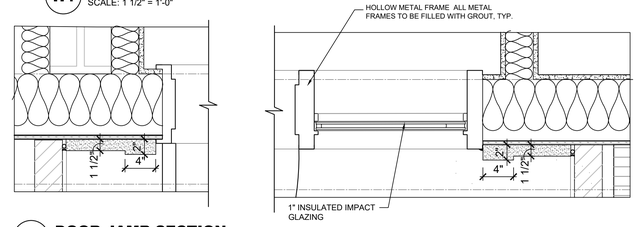
H3 **DOOR HEAD SECTION**
SCALE: 1 1/2" = 1'-0"



J3 **DOOR JAMB SECTION**
SCALE: 1 1/2" = 1'-0"

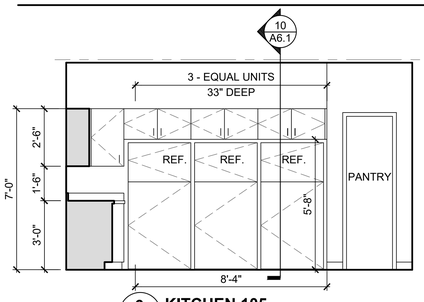


H4 **DOOR HEAD SECTION**
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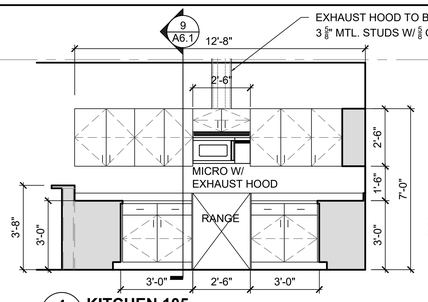


J4 **DOOR JAMB SECTION**
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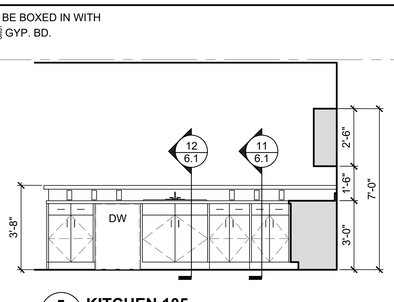
2 A6.1 **DOOR DETAILS**
SCALE: 1 1/2"=1'-0"



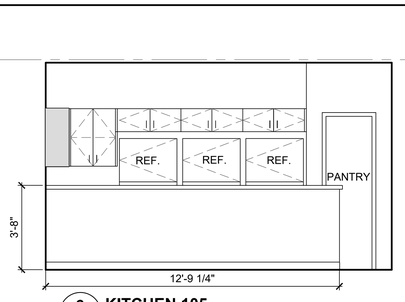
3 A6.1 **KITCHEN 105**
SCALE: 3/8"=1'-0"



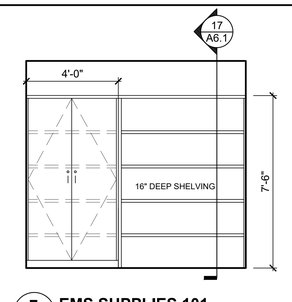
4 A6.1 **KITCHEN 105**
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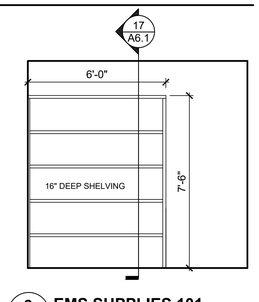
5 A6.1 **KITCHEN 105**
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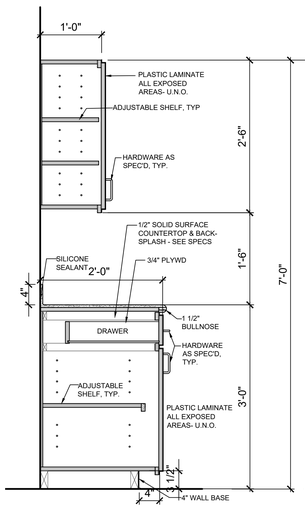
6 A6.1 **KITCHEN 105**
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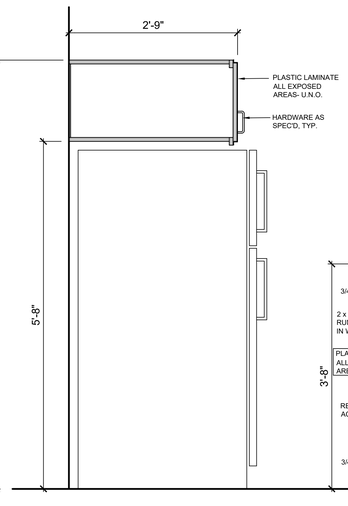
7 A6.1 **EMS SUPPLIES 101**
SCALE: 3/8"=1'-0"



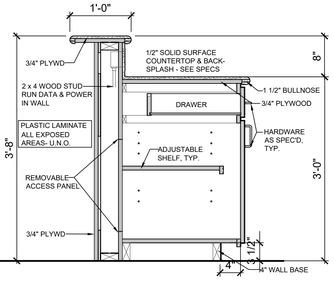
8 A6.1 **EMS SUPPLIES 101**
SCALE: 3/8"=1'-0"



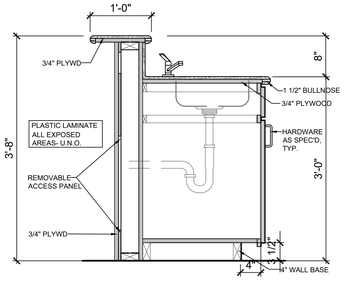
9 A6.1 **CABINET DTL**
SCALE: 1"=1'-0"



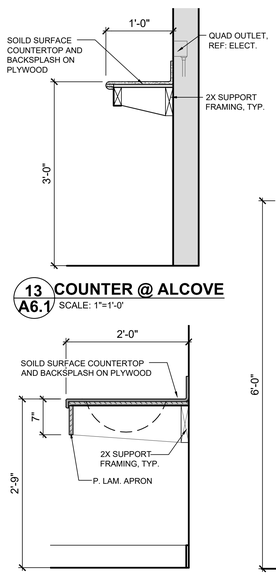
10 A6.1 **CABINET @ REFRIGERATORS**
SCALE: 1"=1'-0"



11 A6.1 **CABINET DTL**
SCALE: 1"=1'-0"

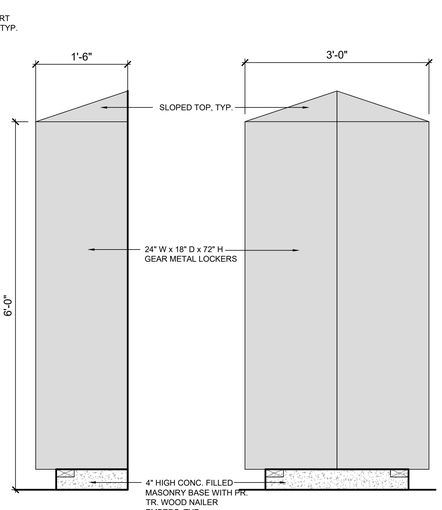


12 A6.1 **SINK CABINET**
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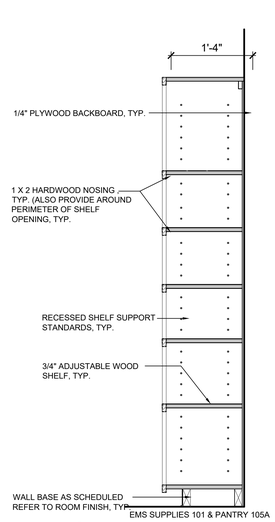


13 A6.1 **COUNTER @ ALCOVE**
SCALE: 1"=1'-0"

14 A6.1 **COUNTER @ ALCOVE**
SCALE: 1"=1'-0"



15 A6.1 **LOCKER SECTION**
SCALE: 1"=1'-0"



16 A6.1 **DBL. LOCKER SECTION**
SCALE: 1"=1'-0"

17 A6.1 **SHELVING SECTION**
SCALE: 1"=1'-0"

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JOSEPH CHARLES PIKE
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2717
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OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: DP
CHECKED:
DATE: 08-15-24

SHEET TITLE
DETAILS
INTERIOR ELEVATIONS

SHEET NO.
A6.1

STRUCTURAL/GENERAL NOTES:

1. THE NOTES PRESENTED IN THESE STRUCTURAL DRAWINGS ARE TO PROVIDE THE CONTRACTOR (AND SUBCONTRACTORS) WITH INFORMATION PERTAINING TO THE STRUCTURAL DESIGN FOR THIS PROJECT. SOME NOTES PRESENTED IN THESE DRAWINGS MAY BE DUPLICATED IN SEVERAL SECTIONS. A SPECIFICATIONS BOOK PROVIDED FOR SUPPLEMENTAL INFORMATION. IN THE EVENT OF CONFLICTING (OR MISSING) INFORMATION THE CONTRACTOR SHOULD EMAIL A (REQUEST FOR INFORMATION (RFI)) TO THE APPROPRIATE DESIGNER OF WEATHERLY ENGINEERING. THE CONTRACTOR SHOULD ASSUME THE MOST STRINGENT CONDITION UNTIL A RULING IS MADE. THE RESPONSE TIME FOR A PARTICULAR RFI MAY DEPEND ON RESEARCH AND MAY INVOLVE A RESPONSE FROM INDIVIDUALS OUTSIDE THE OFFICE OF WEATHERLY ENGINEERING LLC.

2. THE STRUCTURAL NOTES FOR THIS PROJECT ARE GENERALLY CATEGORIZED AS TO WORK TRADE. THERE WILL BE INSTANCES IN WHICH STRUCTURAL NOTES WILL PERTAIN TO MULTIPLE TRADES AND DRAWINGS OR INFORMATION PROVIDED BY OTHERS. FOR THIS REASON, THE DETAILS AND NOTES FOUND IN THE CONSTRUCTION DRAWINGS, DOCUMENTS AND SUBMITTALS SHALL BE CLEARLY UNDERSTOOD BY THE CONTRACTOR AND HIS SUBCONTRACTORS PRIOR TO BID DATE AND STARTING WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SUPERVISION OVER ALL HIS PERSONNEL AND SUBCONTRACTORS. ADEQUATE EXPERIENCED STAFF BY THE GENERAL CONTRACTOR IS A REQUIREMENT TO MAINTAIN CONTROL OVER HIS SUBCONTRACTORS AND ULTIMATELY THE QUALITY OF THE SUBCONTRACTORS WORK.

3. THE LEAD (ARCHITECTURAL) DRAWINGS SHALL BE CONSIDERED (THE ORIGINAL SOURCE(FOR THE DIMENSIONING FOR THE PROJECT AND THEREBY WILL NORMALLY TAKE PRECEDENCE OVER THE DRAWINGS BY OTHERS ON THE DESIGN TEAM. THE DIMENSIONS INDICATED IN THESE STRUCTURAL DRAWINGS ARE TO DOCUMENT AND AID THE STRUCTURAL DESIGNER WITH THE DIMENSIONS USED FOR THE BASIC DESIGN OF THE STRUCTURAL SYSTEM. CONSTRUCTION AND DETAILING DIMENSIONS SHALL BE TAKEN (OR DERIVED) FROM THE (ORIGINAL SOURCE(DRAWINGS BY THE ARCHITECT OR LEAD DESIGNER. KYZER AND TIMMERMAN STRUCTURAL ENGINEERS PROVIDE STRUCTURAL ENGINEERING SERVICES AND SHALL NOT BE CONSIDERED THE LEAD DESIGNER, STRUCTURAL DETAILER OR BUILDING SURVEYOR FOR THIS PROJECT.

4. AS PART OF MEANS AND METHODS, THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURAL SYSTEM AND STRUCTURAL COMPONENTS DURING ALL PHASES OF CONSTRUCTION. WEATHERLY ENGINEERING LLC. ARE NOT PROVIDERS FOR THE DESIGN OF SHORING, SCAFFOLDING, FORMING OR PROJECT SAFETY. THOUGH A REPRESENTATIVE MAY VISIT THE SITE, OUR PERSONNEL ARE NOT HIRED OR TRAINED IN THE PROJECT SAFETY REQUIREMENTS AS REQUIRED BY REGULATIONS OR SPECIFIED BY THE CONTRACTOR AND/OR HIS SAFETY OFFICER(S). MEANS AND METHODS ARE SOLELY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

5. THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS IN THE CONTRACT DOCUMENTS AND THE PROJECT SPECIFICATION REQUIREMENTS, THOUGH THE SHOP DRAWINGS MAY BE APPROVED BY THE STRUCTURAL ENGINEER, THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS. CONTRACTOR DEVIATIONS TO THE CONTRACT DOCUMENTS MUST BE SUBMITTED SEPARATELY FOR APPROVAL TO BRING ATTENTION TO THE DEVIATION. IT IS THE CONTRACTOR'S DUTY TO CHECK, VERIFY, CONFIRM AND COORDINATE ALL DIMENSIONS AND DETAILS, TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS AND COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS AND/OR SUBCONTRACTORS FOR THIS PROJECT.

6. THE STRUCTURAL DRAWINGS AND RELATED INFORMATION SHALL BE USED IN CONJUNCTION WITH ALL ARCHITECTURAL DRAWINGS AS WELL AS OTHER INFORMATION AND DOCUMENTS RELATING TO ALL TRADES. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN VERIFICATION AND COORDINATION OF DIMENSIONS, FIELD CONDITIONS, CLEARANCES, ETC. WITH THE WORK ALL TRADES. IN CASE OF CONFLICT OR UNEXPECTED FIELD CONDITIONS, CONTACT ARCHITECT AND/OR ENGINEER. IN THE OPINION OF THE CONTRACTOR, ANY CONDITIONS WHICH MAY APPEAR TO BE AN OMISSION, DEFICIENCY OR AMBIGUITY IN THE DESIGN DOCUMENTS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR LEAD DESIGNER, IN THE FORM OF AN (RFI((REQUEST FOR INFORMATION) FOR CLARIFICATION. INTERPRETATIONS OR ADDITIONAL INFORMATION MAY BE ISSUED BEFORE THAT PORTION OF THE WORK MAY PROCEED. WORK PERFORMED BY THE CONTRACTOR NOT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS MAY REQUIRE AN ENGINEERING EVALUATION, TESTING OR REMOVAL AT THE EXPENSE OF THE CONTRACTOR. THE ARCHITECTURAL DRAWINGS ARE CONSIDERED THE LEAD DRAWINGS FOR PROJECT INCLUDING DIMENSIONING AND BUILDING LAYOUT/PLACEMENT. THE CONTRACTOR MUST LAYOUT THE BUILDING AND BUILDING COMPONENTS PER THE INFORMATION PROVIDED IN THE ARCHITECTURAL DRAWINGS. DO NOT RELY SOLELY ON THE STRUCTURAL DRAWINGS FOR BUILDING LAYOUT, EQUIPMENT LAYOUT AND SO ON. AN ARCHITECTURAL (ADDENDUM(MAY CAUSE A CHANGE IN THE DIMENSIONS FOUND IN THE STRUCTURAL DRAWINGS.

7. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL WALL OPENINGS INCLUDING DOORS AND WINDOWS. REFER TO ELECTRICAL AND MECHANICAL PLANS AND/OR REQUIREMENTS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, CONDUCTS, ETC.

8. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND/OR VENDER DRAWINGS FOR LOCATIONS OF DEPRESSED FLOOR AREAS, FLOOR DRAINS, FLOOR TOPPINGS, CMU COURSING AND ANY OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

9. THE CONTRACTOR SHALL PAY CLOSE ATTENTION AS TO SUBSTRATE AND FINISHING REQUIREMENTS REQUIRED FOR MATERIALS ATTACHED AND/OR APPLIED TO STRUCTURAL MATERIALS AND COMPONENTS.

10. THESE STRUCTURAL DRAWINGS ARE BASED ON THE LATEST INFORMATION/ARCHITECTURAL DRAWINGS PRIOR TO THE SUBMITTAL DATE. SOME DIMENSIONS FOUND IN THESE DRAWINGS MAY HAVE BEEN VERBALLY COMMUNICATED BY THE ARCHITECT OR TAKEN DIRECTLY FROM ELECTRONIC FILES SUPPLIED BY THE ARCHITECT. GENERAL CONTRACTOR AND SUBCONTRACTORS ARE ADVISED TO USE THE ARCHITECTURAL DRAWINGS AS THE BASIS FOR THE DIMENSIONS ON THIS PROJECT. TYPICALLY, THE ARCHITECTURAL DRAWINGS ARE CONSIDERED THE LEAD DRAWINGS FOR DIMENSIONING.

11. THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE AND SHALL NOT BE REPRODUCED, ALTERED OR REUSED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF WEATHERLY ENGINEERING. THESE STRUCTURAL DRAWINGS ARE PROTECTED THROUGH THE U.S. GOVERNMENT COPYRIGHT LEGISLATION. THE DETAILS AND NOTES INDICATED IN THESE DRAWINGS ARE PART OF AN OVERALL COPYRIGHT REGISTERED WITH 'THE UNITED STATES COPYRIGHT OFFICE, THE LIBRARY OF CONGRESS' COPYRIGHT 2017 - WEATHERLY ENGINEERING (843) 448-3428 / 791-4522 FAX

12. QUESTIONS RELATING TO THESE STRUCTURAL DRAWINGS MAY BE SUBMITTED IN WRITING, THROUGH THE ARCHITECT OR PRIME PROFESSIONAL TO THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE COPIED AT:

WEATHERLY ENGINEERING LLC.
514 ALDER STREET
MYRTLE BEACH, SC 29577
(843) 448-3428 (803)
(843) 445-9116 (FAX)

GEOTECHNICAL:

1. THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS INDICATED IN THE GEOTECHNICAL REPORT WHICH SHALL BE CONSIDERED AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS. REFERENCE IS MADE TO GEOTECHNICAL REPORT BY S&ME, PROJECT #2360075A, DATED MAY 09, 2024. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.

2. A GEOTECHNICAL ENGINEER AND/OR TESTING LABORATORY SHALL BE RETAINED FOR THE PURPOSES OF ASSURING ADEQUATE SOIL SUPPORT FOR FOUNDATION AND SLABS-ON-GRADE (INCLUDING EXTERIOR CONCRETE PADS). A COPY OF ALL TEST REPORTS SHALL REMAIN ON FILE AT THE JOB SITE AVAILABLE FOR THE DESIGN TEAM. ANY TESTS DEEMED UNACCEPTABLE SHALL BE COPIED AND SENT TO THE ARCHITECT AND STRUCTURAL ENGINEER. THE CONTRACTOR SHALL FORWARD COPIES OF ALL REPORTS TO THE OWNER AS REQUIRED BY THEIR AGREEMENT.

3. ANY ELEVATIONS INDICATED ON THE FOUNDATION PLANS TYPICALLY REFER TO TOP OF FOOTING. ALL FOOTINGS SHALL EXTEND BELOW FROST DEPTH AND DOWN TO SOLID BEARING MATERIAL REGARDLESS OF ELEVATIONS SHOWN. SEE GEOTECHNICAL REQUIREMENTS BY GEOTECHNICAL ENGINEER AS NEEDED FOR PROPER COMPACTION AND PREPARATION OF SOILS.

4. TOP OF ALL SPREAD FOOTINGS SHALL BE A MINIMUM OF 8" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE (UNO).

5. THE SIDES OF FOUNDATION CONCRETE MAY BE EARTH FORMED PROVIDED THE EXCAVATION CAN BE SAFELY KEPT VERTICAL, CLEAN AND STABLE, OTHERWISE, FORMS MUST BE USED. REFER TO GEOTECHNICAL ENGINEER FOR ADDITIONAL INFORMATION AS REQUIRED.

6. WEATHERLY ENGINEERING LLC. ARE NOT RESPONSIBLE FOR TRASH, DEBRIS, SOFT AREAS FOR ANY OTHER ANOMALY WHICH MAY FOUND UNDER THE BUILDING SITE WHETHER PLACED THERE OR NATURALLY OCCURRING.

7. THIS FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF AS INDICATED IN THE GEOTECHNICAL REPORT.

CONCRETE:

1. ALL CONCRETE AND REINFORCING BARS SHALL BE INSTALLED ACCORDING TO STANDARDS SET FORTH BY THE LATEST EDITION OF ACI-318.

2. REINFORCEMENT SHALL BE HELD IN PLACE DURING CONCRETE PLACEMENT. IF REQUIRED, ADDITIONAL BARS MAY BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL BARS.

3. 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

FOOTINGS	3000 PSI
SLABS ON GRADE	4000 PSI
STEPS ON GRADE	4000 PSI

4. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN CONCRETE IS TO BE PLACED AND CURED DURING COLD OR HOT WEATHER. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE INSTITUTE FOR COLD OR HOT WEATHER CONSTRUCTION.

5. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE ABOVE THAT PRESCRIBED IN THE MIX DESIGN UNLESS APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.

6. REINFORCING STEEL SHALL BE GRADE 60, MINIMUM LAP IN CONCRETE SHALL BE IN ACCORDANCE W/ ACI-318.

7. WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 1'-0".

8. EXTERIOR CONCRETE PADS SHALL BE SIZED AND LOCATED PER THE CONTRACT DOCUMENTS AND/OR EQUIPMENT SPECIFICATIONS. PLEASE SEE DRAWINGS BY ARCHITECT AND/OR MECHANICAL/ELECTRICAL ENGINEERS IN ADDITION TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.

9. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS. SECTION SHEETS OR ERECTION PLANS. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW. AMPLE TIME, AS DETERMINED BY THE STRUCTURAL ENGINEER, SHALL BE ALLOTTED FOR HIS REVIEW OF SHOP DRAWINGS. THE CONTRACTOR MAY ISSUE SHOP DRAWINGS EARLY IN THE SCHEDULE TO ALLOW FOR ADEQUATE FABRICATION TIME.

10. ALL SLAB DOWELS IN EXPANSION JOINTS SHALL BE STRAIGHT, SMOOTH AND FREE OF BURRS. SLAB DOWELS SHALL BE PROPERLY SUPPORTED DURING CONSTRUCTION AND PROPERLY ALIGNED TO KEEP DOWELS PARALLEL TO THE DIRECTION OF EXPECTED MOTION.

11. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS-USE PLASTIC TIP LEGS ON ALL EXPOSED CONCRETE.

12. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISH/COLOR, SPECIAL FLATNESS REQUIREMENTS, ETC. ALL CONCRETE SHALL BE PROPERLY CURED IMMEDIATELY AFTER FINISHING.

13. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO COLLECT CYLINDERS AND PERFORM THE NECESSARY CONCRETE TESTS. A MINIMUM OF FOUR CYLINDERS SHALL BE TAKEN FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF) OF EACH CONCRETE TYPE/STRENGTH SUPPLIED. THE CONCRETE CYLINDERS SHALL BE TAKEN AFTER WATER AND ADMIXTURES (IF ANY) ARE ADDED TO THE MIX. IT IS RECOMMENDED THAT ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS AND HOLD THE FINAL CYLINDER IN RESERVE. IT IS RECOMMENDED THAT TEST REPORTS SHALL BE SENT DIRECTLY TO THE GENERAL CONTRACTOR, OWNER, ARCHITECT AND STRUCTURAL ENGINEER. ANY CYLINDER BREAKS (INCLUDING 7 AND 14 DAY BREAKS) SHALL BE FLAGGED AND BROUGHT TO THE ATTENTION OF THE APPROPRIATE DESIGN PROFESSIONAL.

14. THE CONTRACTOR, CONCRETE SUPPLIERS AND ALL RELATED SUBCONTRACTORS SHALL BE EXPERIENCED IN THE USE OF CONCRETE ADMIXTURES, SEALERS, CURING COMPOUNDS, ETC. AS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE CONCRETE MIX.

15. UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL SPACE SLAB-ON-GRADE JOINTS NOT EXCEED 36 TIMES THE SLAB THICKNESS PER ACI (AMERICAN CONCRETE INSTITUTE). THE WIDTH TO LENGTH OF JOINTED SECTIONS SHALL NOT EXCEED THE RATIO OF 1 TO 1-1/2.

16. ALL ANCHOR BOLTS SHALL EXTEND TO BOTTOM OF FOOTING - THE CONTRACTOR SHALL PROVIDE 3 INCHES OF CONCRETE COVER. DEPENDING ON THE METHOD OF CONSTRUCTION AND FIELD CONDITIONS, THE CONTRACTOR MAY BE REQUIRED TO INSTALL LEVELING NUTS AND NON-SHRINK GROUT AS NEEDED TO PROVIDE ADEQUATE CONTACT BELOW ALL STEEL COLUMN BASE PLATES.

CMU MASONRY & ANCHORED VENEER:

1. THE MASONRY DIMENSIONS ON THIS PROJECT ARE CONSIDERED AS NOMINAL DIMENSIONS. THE SHAPE AND ACTUAL SIZE OF THE MASONRY UNITS SHALL BE CONSIDERED IN THE BUILDING AND WALL LAYOUT PLAN.

2. FILL ALL CELLS BELOW FLOOR (AND GRADE) LEVEL OR CONTAINING REBAR WITH 2500 PSI GROUT. GROUT SHALL BE PLACED IN LIFTS NO HIGHER THAN 5 FEET. MASONRY UNITS SHALL BE CLEAN AND DRY. 2 HOUR (AND HIGHER) FIRE RATED MASONRY WALLS SHALL HAVE ALL CELLS GROUT FILLED.

3. THE CONTRACTOR SHALL INSTALL SUFFICIENT REBAR PLACEMENT WALL TIES TO ENSURE THE PROPER PLACEMENT OF ALL HORIZONTAL AND VERTICAL REBAR.

4. ALL MASONRY ACCESSORIES (INCLUDING LINTEL PLATES AND ANGLES) SHALL BE GALVANIZED. HORIZONTAL BED JOINT REINFORCEMENT SHALL BE GALVANIZED AS REQUIRED BY APPLICATION, MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE BUILDING CODES. ALL LINTEL PLATES AND ANGLES SHALL HAVE A MINIMUM THICKNESS OF 3/8" THICK UNLESS OTHERWISE NOTED.

5. THE GENERAL CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS SHOWING NUMBER, SIZE AND LOCATION, INCLUDING BAR LISTS AND DIAGRAMS, TO THE ARCHITECT FOR APPROVAL. THE STRUCTURAL DRAWINGS ARE NOT TO BE REPRODUCED FOR SHOP DRAWINGS. SECTION SHEETS OR ERECTION PLANS. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CONTRACTOR FOR (BUT NOT LIMITED TO) DIMENSIONS, ELEVATIONS, AND ERECTION PROCEDURES PRIOR TO ARCHITECT & STRUCTURAL ENGINEER'S REVIEW.

6. MASONRY REBAR LAP SPLICES SHALL BE:

#4 BARS	= 24" LAP
#5 BARS	= 30" LAP
#6 BARS	= 48" LAP
#7 BARS	= 60" LAP
#8 BARS	= 90" LAP

7. CONCRETE MASONRY TO HAVE A MINIMUM F'm OF 1500 PSI. THIS IS TO BE ACHIEVED BY USING A CONCRETE BLOCK MASONRY UNIT WITH A NET AREA COMPRESSIVE STRENGTH OF 2000 PSI WHEN USED IN CONJUNCTION WITH TYPE M OR S MORTAR.

8. ALL MASONRY SHALL BE PLACED IN FULL MORTAR BED. ALL MORTAR SHALL BE TYPE "M" OR "S".

9. THE CONTRACTOR SHALL TAKE ADDITIONAL PRECAUTIONS WHEN MASONRY IS TO BE CONSTRUCTED DURING COLD WEATHER (AMBIENT TEMPERATURE BELOW 40 DEGREES FAHRENHEIT). DURING HOT CONDITIONS (ABOVE 90 DEGREES) PRECAUTIONS SHALL BE TAKEN TO MINIMIZE EXCESS HEAT IN THE MASONRY UNITS, MORTAR AND MORTAR. IT IS ADVISED THAT THE CONTRACTOR FOLLOW THE RECOMMENDATIONS PRESCRIBED BY AMERICAN CONCRETE ASSOCIATION FOR COLD OR HOT WEATHER CONSTRUCTION.

10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

11. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS & BRICK EXPANSION JOINTS. ALL CONTROL JOINTS AND EXPANSION JOINTS SHALL BE INSTALLED IN ACCORDANCE TO THE STANDARDS SET FORTH BY THE NATIONAL CONCRETE MASONRY ASSOCIATION. IN NO CASE SHALL EXTERIOR WALL JOINTS BE SPACED GREATER THAN 25 FEET ON CENTER AND INTERIOR WALL JOINTS SHALL NOT EXCEED 30 FEET ON CENTER. REINFORCED BOND BEAMS LOCATED AT ROOF AND/OR FLOOR DIAPHRAGMS SHALL BE CONTINUOUS THROUGH MASONRY JOINTS UNLESS OTHERWISE SPECIFIED IN THE STRUCTURAL DRAWINGS.

12. RUNNING BOND MASONRY TO HAVE 9 GAGE LADDER TYPE JOINT REINFORCEMENT @ 16" ON CENTER VERTICALLY. PREFORMED BED JOINT REINFORCEMENT SHALL BE USED AT ALL WALL CORNERS AND INTERSECTIONS. ALL GAGE WIRE LADDER TYPE BED JOINT REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 8 INCHES.

13. ALL ANGLE LINTELS SUPPORTING MASONRY VENEERS SHALL BEAR A MINIMUM OF 6 INCHES.

14. FOR STUD WALLS BACKING UP BRICK VENEER, ONE HALF INCH EXTERIOR GRADE PLYWOOD OR ONE HALF INCH APA RATED OSB BOARD SHALL BE ATTACHED TO THE STUDS WITH FASTENERS AS INDICATED IN THE BUILDING CODE (UNLESS OTHERWISE NOTED IN THESE DRAWINGS). GALVANIZED SEISMIC METAL TIES SHALL BE USED IN THE WALL ASSEMBLY TO TIE THE BRICK BACK TO THE SHEATHING/STUDS. THESE TIES SHALL BE SPACED AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. A CONTINUOUS SINGLE-WIRE JOINT REINFORCEMENT OF MINIMUM WIRE SIZE OF W1.7 SHALL BE INSTALLED IN THE BED JOINTS AND ATTACHED TO THE BRICK TIES. FOR OPENINGS THE BRICK TIES MAY NOT BE SPACED FURTHER THAN 16 INCHES ON CENTER AND 12 INCHES FROM EDGE OF OPENING. FOR ARCHES AND LINTELS WITH MASONRY FORMING THE HEAD OF THE OPENING, THE CONTRACTOR SHALL INSTALL MASONRY TIES AT EACH BRICK JOINT TO ADEQUATELY SUSPEND/SUPPORT THE BRICK IN PLACE AS INTENDED IN THE ARCHITECTURAL DRAWINGS.

15. GALVANIZED SEISMIC METAL TIES SHALL BE USED IN THE WALL ASSEMBLY TO TIE THE VENEER BACK TO THE WALL SYSTEM. THESE TIES SHALL BE SPACED NO FURTHER THAN AT 16" ON CENTER VERTICALLY AND HORIZONTALLY. A CONTINUOUS SINGLE-WIRE JOINT REINFORCEMENT OF MINIMUM WIRE SIZE OF W1.7 SHALL BE INSTALLED IN THE BED JOINTS AND ATTACHED TO THE BRICK TIES. FOR OPENINGS THE BRICK TIES MAY NOT BE SPACED FURTHER THAN 16 INCHES ON CENTER AND 12 INCHES FROM EDGE OF OPENING. FOR ARCHES AND LINTELS WITH MASONRY FORMING THE HEAD OF THE OPENING, THE CONTRACTOR SHALL INSTALL MASONRY TIES AT EACH BRICK JOINT TO ADEQUATELY SUSPEND/SUPPORT THE BRICK IN PLACE AS INTENDED IN THE ARCHITECTURAL DRAWINGS.

PRE-ENGINEERED METAL BUILDING AND COMPONENTS:

1. THIS FOUNDATION DRAWING IS DESIGNED USING PRELIMINARY METAL BUILDING FOUNDATION LOADS. THE FINAL METAL BUILDING REACTIONS (FROM THE SUCCESSFUL METAL BUILDING SUPPLIER) SHALL BE SUBMITTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION. THIS FOUNDATION PLAN IS SUBJECT TO MODIFICATION DUE TO THE MAGNITUDE AND LOCATION(S) OF THESE FINAL REACTIONS.

2. A SUITABLE NON-SHRINK GROUT SHALL BE PLACED UNDER COLUMN BASE PLATES-ONCE THE STEEL COLUMN IS IN PLACE & PLUMB. THOUGH THE DETAILS AND DRAWINGS MAY NOT INDICATE, IT IS RECOMMENDED THAT THE CONTRACTOR USE LEVELING PLATES AND LEVELING NUTS BELOW THE BASE PLATES TO PLUMB THE STEEL COLUMNS.

3. AS PART OF THE CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO SUBMIT SEALED (ENGINEERED) SHOP DRAWINGS AND FINAL FRAME REACTIONS, FROM THE METAL BUILDING MANUFACTURER, TO THE ARCHITECT FOR VERIFICATION OF FOUNDATION DESIGN. THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL CERTIFY THE PRE-ENGINEERED METAL BUILDING'S SYSTEM MEETS THE DESIGN SEISMIC/WIND LOADS (WITH APPROPRIATE SHAPE FACTORS) AS SET FORTH IN THE LATEST EDITION OF THE APPLICABLE BUILDING CODE. AS A MINIMUM, IT IS RECOMMENDED THAT THE BUILDING SWAY SHALL BE NO GREATER THAN H/180 (WHERE H= BUILDING EAVE HEIGHT) FOR FULL WIND LOADS (WITH APPROPRIATE SHAPE FACTORS) AS DESCRIBED IN THE LATEST EDITION OF THE APPLICABLE BUILDING CODE(S). THOUGH THE BUILDING SWAY AND DEFLECTION REQUIREMENTS MAY BE STIPULATED IN THE DESIGN DOCUMENTS, THE PRE-ENGINEERING METAL BUILDING SUPPLIER'S STRUCTURAL DESIGNER MAY USE A STIFFER SYSTEM, PER HIS DESIGN, TO PREVENT CRACKS IN THE INTERIOR AND EXTERIOR FINISHES. IN NO CASE SHALL THE PRE-ENGINEERED METAL BUILDING SUPPLIER USE A SYSTEM ALLOWING MORE DEFLECTION/SWAY THAN INDICATED IN THE DESIGN DOCUMENTS. THE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED AND INSTALLED AS AN INTEGRAL PART OF THE STRUCTURE. IT IS NECESSARY FOR THE METAL BUILDING SUPPLIER TO REALIZE THE FINISHES AND OTHER COMPONENTS OF THE BUILDING ARE SUBJECT TO BEING SUPPORTED HORIZONTALLY AND LATERALLY BY THE METAL BUILDING SYSTEM AND COMPONENTS. THE METAL BUILDING ORDER SHALL MAKE REFERENCE TO THIS IN THE DESIGN CRITERIA.

4. THE MASONRY WALLS ON THIS PROJECT ARE NOT DESIGNED TO RESIST THE LATERAL LOADS REQUIRED TO STABILIZE THE PRE-ENGINEERED METAL BUILDING SYSTEM. THE PRE-ENGINEERED METAL BUILDING DESIGNER MAY NOT USE ANY COMPONENT (NOT SUPPLIED BY THE PRE-ENGINEERED METAL BUILDING SUPPLIER) TO RECEIVE ANY LOADS FROM THE METAL BUILDING SYSTEM WITHOUT WRITTEN PERMISSION BY THE ENGINEER OR ARCHITECT OF RECORD.

5. THE PRE-ENGINEERED METAL BUILDING SUPPLIER IS REQUIRED TO REVIEW THE ARCHITECTURAL AND ENGINEERING DRAWINGS TO DETERMINE THE LOADS ASSOCIATED ON THE PRE-ENGINEERED BUILDING. THIS INCLUDES WALL AND/OR ROOF LOADS INCLUDING SPRINKLERS, CEILINGS SYSTEMS, MECHANICAL UNITS, SUSPENDED UNITS FROM THE WALL OR ROOF, ETC.

6. THE CONTRACTOR SHALL PAY CLOSE ATTENTION TO THE PROJECT REQUIREMENTS REGARDING COLUMN TYPE (TAPERED, STRAIGHT, SUPERMARKET, ETC.), SIZE, SPACING AS WELL AS HORIZONTAL AND VERTICAL CLEARANCES.

7. AS PART OF THE CONTRACT, THE CONTRACTOR SHALL MONITOR THE ERECTION AND CONSTRUCTION OF THE PRE-ENGINEERED METAL BUILDING SYSTEM TO ASSURE THAT ALL THE NECESSARY STEEL AND BOLTS ARE PROPERLY PLACED AND TIGHTENED. NO DEVIATIONS ARE ALLOWED FROM THE METAL BUILDING SUPPLIER'S DRAWINGS WITHOUT WRITTEN CONSENT FROM THE ENGINEER OF RECORD FOR THE PRE-ENGINEERED METAL BUILDING SYSTEM.

8. THE FIREPROOFING ASSOCIATED WITH STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL REFER TO THE ARCHITECTURAL DRAWINGS AND APPLICABLE BUILDING CODE FOR FIRE RATING INCLUDING MATERIALS AND METHODS.

9. ALL STEEL REQUIRING PAINT SHALL BE PROPERLY CLEANED AND PREPARED TO ACCEPT THE APPROPRIATE PAINT FOR THE PROJECT. THE PAINT TYPE, COLOR AND THICKNESS SHALL BE SELECTED ACCORDING TO THE LOCATION OF THE STEEL, TYPE OF BUILDING AND OWNER'S REQUIREMENTS FOR COLOR, ETC. DECISIONS INVOLVING PAINT, COLOR AND SO ON SHALL BE PER OWNER.

10. TO PREVENT FIELD PLACEMENT ISSUES FOR THE METAL BUILDING FRAMES AND COLUMNS, THE CONTRACTOR SHALL PAY SPECIAL ATTENTION TO THE COLUMN GRID DESIGNATIONS INDICATED IN THE STRUCTURAL, ARCHITECTURAL AND METAL BUILDING DRAWINGS. THE METAL BUILDING DESIGNER/SUPPLIER WILL TYPICALLY PREPARE THE METAL BUILDING DRAWINGS AFTER THE STRUCTURAL AND ARCHITECTURAL DRAWINGS ARE COMPLETED AND WILL USE A DIFFERENT OR REVERSE COLUMN GRID.

COLD-FORMED STEEL FRAMING

1. ALL LOAD BEARING STEEL STUDS SHALL BE SQUARELY SEATED IN THE UPPER AND LOWER TRACKS. ALL STUDS SHALL BE FASTENED TO TRACKS W/ #10 SCREW EACH SIDE.

2. HORIZONTAL BRIDGING SHALL BE INSTALLED ON ALL WALLS AT A MAXIMUM OF 5'-0" ON CENTER.

3. ALL GAUGE METAL FRAMING FOR THIS PROJECT SHALL BE COATED WITH G60 GALVANIZING MINIMUM.

4. THE CONTRACTOR SHALL INSTALL SUFFICIENT TEMPORARY BRACING, UNTIL ERECTION OF THE FRAMING IS COMPLETE.

LOAD TABLE

2021 INTERNATIONAL BUILDING CODE AND ASCE 7-16

RISK CATEGORY: = IV (ASCE Table 1.5-1)

LIVE LOADS:

1. FLOOR LOADS:
   - A. Truck/Apparatus Bay = Loading to conform with IBC Section 1607.7.2 - Actual Operational Loads, Including Outrigger Reactions and Contact Areas of Submitted Vehicles
   - B. Light Storage = 125 psf
   - C. Offices = 50 psf
2. ROOF LOADS:
   - A. Basic roof live load = 20 psf (ASCE Section 4.3.2)
3. PARTITIONS:
   - A. Partition load = 15 psf

Note: It shall be unlawful to place, cause or permit to be placed, on any floor or roof of a building, structure, or portion thereof, a load greater than is permitted by these requirements. (per IBC 1603.2)

DEAD LOADS:

1. USE ACTUAL DEAD LOADS OF MATERIALS

SNOW LOADS:

GROUND SNOW LOAD - Pg = 10 psf	(ASCE Figure 7-1)
SNOW LOAD IMPORTANCE FACTOR - Is = 1.2	(ASCE Table 1.5-2)
SNOW EXPOSURE FACTOR - Ce = 1.0	(ASCE Table 7-2)
THERMAL FACTOR - Ct = 1.0	(ASCE Table 7-3)
FLAT-ROOF SNOW LOAD-Pf = 9 psf	(ASCE Section 7.3)

WIND LOADS:

$V_{ultimate}$ = 153 (mph)	(ASCE Figure 26.5-1B)
V_{ASD} = 119 (mph)	
WIND EXPOSURE = C	(ASCE Section 26.7)
WIND BORN DEBRIS - YES	(ASCE Section 26.10.3.1)

If yes, exterior windows and doors shall have debris protection per ASCE 26.10.3.2

INTERNAL PRESSURE COEFFICIENT (ASCE Table 26.11-1)
Enclosed Building +/- 18%

1.

STATEMENT OF SPECIAL INSPECTIONS (PER CHAPTER 17, 2018 IBC)

SPECIAL INSPECTION COMPANY / COORDINATOR - TO BE RETAINED BY OWNER

BUILDING SYSTEM OR COMPONENT	MATERIAL SUBMITTAL	TESTING			INSPECTION (PER IBC)			QUALITY ASSURANCE (PER IBC)	
		REQUIREMENTS	FREQUENCY	AGENCY	MONITORING	FREQUENCY	AGENCY	PART OF WIND	PART OF SEISMIC
SOILS (COMPACTED FILL)	N/A	1. TEST IN PLACE DRY DENSITY OF COMPACTED FILL.	1. AS APPROVED GEOTECHNICAL ENGINEER.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	AS EXCAVATION AND FILL PLACEMENT BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH GEOTECHNICAL REPORT: 1. MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY AS SPECIFIED IN SOILS REPORT. 2. EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. 4. USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. CONTINUOUS 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	1. COLUMNS AND SHEARWALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL.	1. COLUMNS AND SHEARWALLS ACCORDANCE WITH APPROVED SOILS REPORT PRIOR TO PLACEMENT OF FILL.
CONCRETE FOUNDATIONS	1. SUBMIT CONCRETE MIX DESIGN. 2. SUBMIT FOUNDATION REINFORCEMENT SHOP DRAWINGS. 3. VERIFY PROPER CONCRETE STRENGTH.	1. TEST CONCRETE STRENGTH.	1. (1) SET OF CYLINDERS FOR EACH VERTICAL LIFT OR EACH 50 YARDS OF CONCRETE.	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	AS CONCRETE AND REINFORCING STEEL CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE INSPECTED TO ENSURE COMPLIANCE: 1. VERIFY REINFORCING SIZE, QUANTITY & PLACEMENT 2. ANCHORS CAST IN CONCRETE 3. ANCHORS POST INSTALLED IN HARDENED CONCRETE 4. VERIFYING USE OF REQUIRED DESIGN MIX 5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF CONCRETE 6. CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES 7. INSPECT FORMWORK FOR, SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	1. PERIODIC 2. PERIODIC 3. PERIODIC 4. PERIODIC 5. CONTINUOUS 6. CONTINUOUS 7. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.	1. SPREAD FOOTINGS AT BEARING WALLS AND SHEARWALL.
CONCRETE MASONRY UNITS	- SUBMIT TEST DATA ON CMU UNITS NET AREA OF COMPRESSIVE STRENGTH 1900 PSI OR GREATER. - TYPE 'S' MORTAR GROUT MIX 2000 PSI.	1. TEST COMPRESSIVE STRENGTH OF MORTAR	1. (1) SET OF GROUT CUBES FROM EACH FLOOR	TESTING LAB TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	SEE MASONRY INSPECTION CHART	SEE MASONRY INSPECTION CHART	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL	- YES	- YES
METAL BUILDING SYSTEM & COMPONENTS	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING
STRUCTURAL STEEL	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM FRAMING	1. FLOOR AND ROOF SYSTEM FRAMING
STRUCTURAL STEEL HIGH - STRENGTH BOLTING (AND MECHANICAL FASTENING OF METAL DECK)	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR HIGH-STRENGTH BOLTS, NUTS, WASHERS AND/OR FASTENERS.	N/A	N/A	N/A	1. VERIFY BOLTING IN BEARING-TYPE CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 2. VERIFY BOLTING IN SLIP-CRITICAL CONNECTIONS ARE INSTALLED IN ACCORDANCE WITH AISC SPECIFICATIONS. 3. VERIFY IDENTIFICATION MARKING ON HIGH-STRENGTH BOLTS, NUTS AND WASHERS CONFORMING TO ASTM STANDARDS SPECIFIED. 4. VERIFY FASTENER TYPE AND ADHERENCE TO SPECIFIED FASTENER ATTACHMENT PATTERN. 5. VERIFY PROPER STORAGE AND HANDLING OF BOLTS, NUTS, WASHERS.	1. PERIODIC 2. CONTINUOUS (MAY BE PERIODIC IF TURN-OF-NUT WITH MATCH MARKING METHODS, DIRECT TENSION INDICATOR OR ALTERNATE DESIGN FASTENER (TWIST-OFF) METHODS ARE USED) 3. PERIODIC 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM BOLTING	1. FLOOR AND ROOF SYSTEM BOLTING
STRUCTURAL STEEL WELDING	1. SUBMIT MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR WELD FILLER MATERIAL.	N/A	N/A	N/A	VERIFY WELDING IS IN COMPLIANCE WITH AWS D1.1 1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS. 2. MULTIPASS FILLET WELDS 3. SINGLE-PASS FILLET WELDS > 5/16" 4. SINGLE-PASS FILLET WELDS < OR = 5/16" 5. FLOOR AND DECK WELDS	1. CONTINUOUS 2. CONTINUOUS 3. CONTINUOUS 4. PERIODIC 5. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. FLOOR AND ROOF SYSTEM WELDING	1. FLOOR AND ROOF SYSTEM WELDING
COLD FORM FRAMING	1. SUBMIT MANUFACTURER'S CERTIFIED MILL TEST REPORTS FOR STRUCTURAL STEEL.	N/A	N/A	N/A	1. VERIFY ALL SIZES, SPACINGS, AND GAUGES ETC. CONFORM W/ CONSTRUCTION DOCUMENTS 2. VERIFY ALL CONNECTIONS AND FASTENERS CONFORM WITH CONSTRUCTION DOCUMENTS 3. VERIFY ALL BRIDGING AND BRACING CONFORMS WITH CONSTRUCTION DOCUMENTS	1. PERIODIC 2. PERIODIC 3. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. YES	1. YES
ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER	1. SUBMIT ANCHOR TYPE AND LITERATURE.	1. SUBMIT MANUFACTURERS TEST REPORTS.	N/A	N/A	1. VERIFY FASTENER LOCATION AND INSTALLATION.	1. PERIODIC	INSPECTION AGENCY TO BE APPROVED BY SPECIAL INSPECTION COORDINATOR & BUILDING OFFICIAL PER IBC	1. NO	1. YES

NOTE: ALL TESTING, INSPECTION & RELATED REPORTS SHALL BE SENT TO THE SPECIAL INSPECTION COORDINATOR & THE OWNER.
ANY DEFICIENCIES SHALL BE CLEARLY NOTED & BROUGHT TO THE ATTENTION OF THE SPECIAL INSPECTION COORDINATOR BEFORE THE END OF THE INSPECTOR'S SHIFT.

DEFINITIONS:
- SPECIAL INSPECTOR: PER IBC "A QUALIFIED PERSON EMPLOYED OR RETAINED BY AN APPROVED AGENCY AND APPROVED BY THE BUILDING OFFICIAL AS HAVING THE COMPETENCE NECESSARY TO INSPECT A PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION".
- PERIODIC SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED".
- CONTINUOUS SPECIAL INSPECTION: PER IBC "SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED". THIS IS INTENDED TO BE A CONTINUOUS INSPECTION.

MASONRY INSPECTION FREQUENCY CHART

INSPECTION TASK	FREQUENCY OF INSPECTION: CONTINUOUS DURING TASK LISTED	FREQUENCY OF INSPECTION: PERIODICALLY DURING TASK LISTED
AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
1. PROPORTIONS OF SITE-PREPARED MORTAR	—	REQ'D
2. CONSTRUCTION OF MORTAR JOINTS	—	REQ'D
3. LOCATION OF REINFORCEMENT & CONNECTORS	—	REQ'D
THIS INSPECTION PROGRAM SHALL VERIFY:		
A. SIZE & LOCATION OF STRUCTURAL ELEMENTS	—	REQ'D
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	—	REQ'D
C. SPECIFIED SIZE, GRADE & TYPE OF REINFORCEMENT	—	REQ'D
D. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG. F.) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG. F.).	—	REQ'D
PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:		
A. GROUT SPACE IS CLEAN	—	REQ'D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	—	REQ'D
C. PROPORTIONS OF SITE PREPARED GROUT	—	REQ'D
D. CONSTRUCTION OF MORTAR JOINTS	—	REQ'D
GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS:	REQ'D	—
PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR, SPECIMENS AND/OR PRISMS SHALL BE OBSERVED:	REQ'D	—
COMPLIANCE WITH REQUIRED INSPECTIONS PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED:	—	REQ'D

SEISMIC QUALITY ASSURANCE PLAN

1. THE FOLLOWING SEISMIC SYSTEMS AND SEISMIC-FORCE-RESISTING SYSTEM ARE SUBJECT TO QUALITY ASSURANCE:
   - A. MASONRY SHEARWALL REINFORCEMENT.
   - B. ATTACHMENT OF ROOF STRUCTURAL SYSTEM TO SHEARWALLS.
   - C. INSTALLATION OF SUSPENDED CEILINGS AND THEIR ANCHORAGE.
   - D. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER.
   - E. ANCHORAGE OF EXTERIOR WALL PANELS &/OR GLAZING.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTOR'S RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC - FORCE - RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A COMPONENT LISTED IN THE SEISMIC QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

WIND QUALITY ASSURANCE PLAN

1. THE FOLLOWING MAIN WIND FORCE-RESISTING SYSTEMS AND WIND RESISTING COMPONENTS ARE SUBJECT TO QUALITY ASSURANCE:
   - A. MASONRY SHEARWALL CONSTRUCTION AND REINFORCEMENT.
   - B. ROOF DIAPHRAGM SYSTEMS.
   - C. WALL CONNECTIONS TO ROOF DIAPHRAGM AND FRAMING.
   - D. GLAZING SYSTEM FABRICATION AND INSTALLATION.
   - E. ROOF CLADDING AND ROOF FRAMING COMPONENTS.
2. PROVIDE SPECIAL INSPECTIONS FOR SYSTEMS INDICATED ABOVE AS INDICATED IN SPECIAL INSPECTIONS CHART.
3. TYPE AND FREQUENCY OF TESTING PER CHART.
4. TYPE AND FREQUENCY OF SPECIAL INSPECTIONS SEE CHART.
5. ALL REPORTS TO ARCHITECT, STRUCTURAL ENGINEER AND SPECIAL INSPECTIONS COORDINATOR.
6. PERIODIC STRUCTURAL OBSERVATION WILL BE PERFORMED AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM.
7. STRUCTURAL OBSERVATION REPORTS TO ARCHITECT, STRUCTURAL ENGINEER

CONTRACTORS RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WINDFORCE - RESISTING SYSTEM OR A WIND-RESISTING COMPONENT LISTED IN THE WIND QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE WIND QUALITY ASSURANCE PLAN.
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4. IDENTIFICATIONS AND QUALIFICATIONS OF PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

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www.pmh@pmhcroft.com

SOUTH CAROLINA PROFESSIONAL ENGINEER — No. 15317 — 08-15-24 — REGISTERED — LEIGH BRYAN WEATHERLY

WEATHERLY ENGINEERING LLC MYRTLE BEACH, SC — SOUTH CAROLINA — No. 5538 — CERTIFICATE OF AUTHORIZATION

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — 1801 — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:

FINKLEA FIRE STATION #9

HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

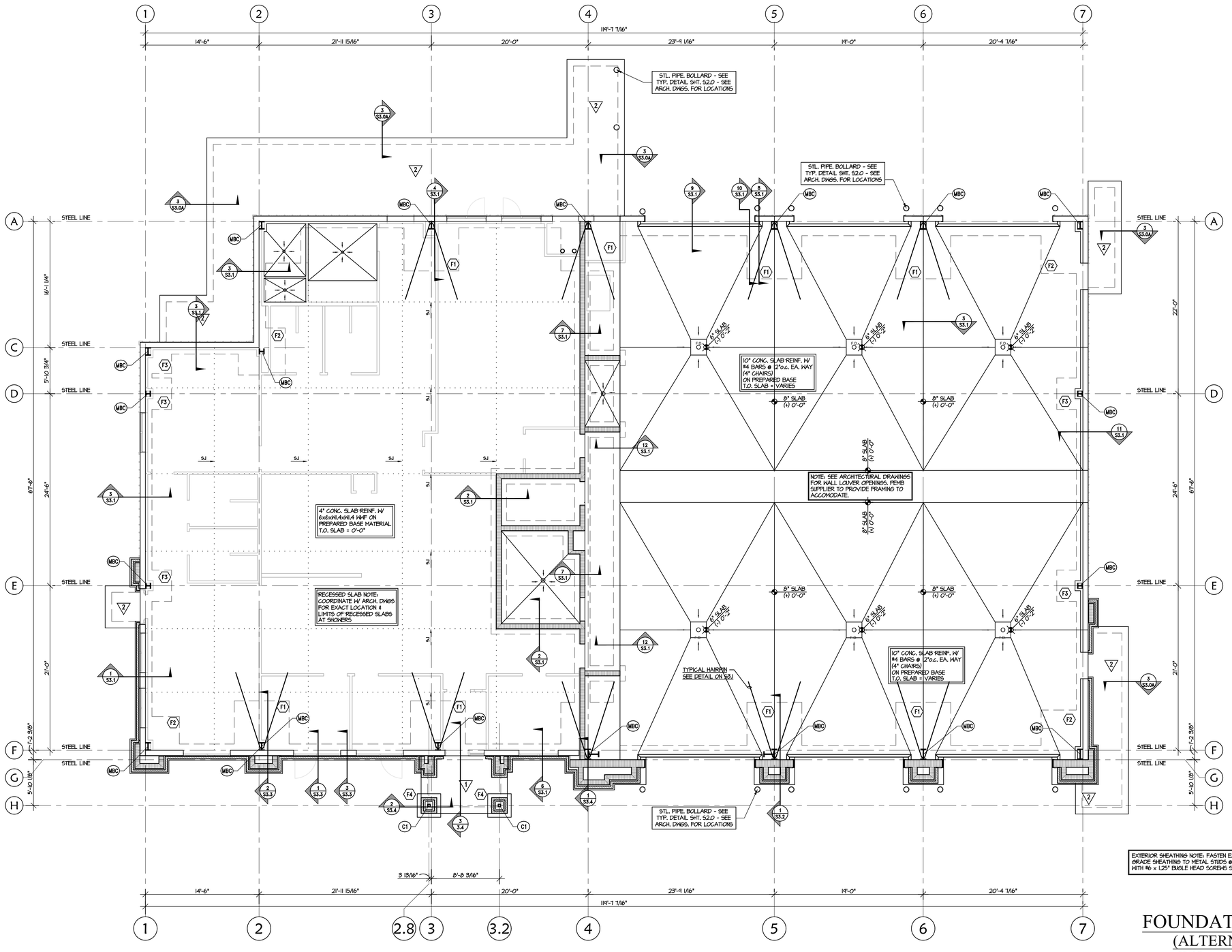
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24002

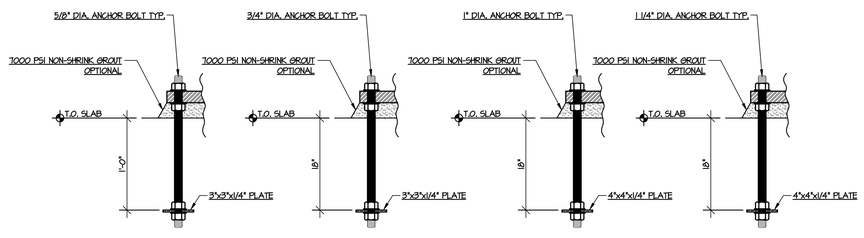
DRAWN:	CHECKED:
AGB	DL
DATE:	8-15-24

SHEET TITLE
Statement of Special Inspection

SHEET NO.
S1.1

Weatherly STRUCTURAL ENGINEERS
514 Alder Street, Myrtle Beach, South Carolina
Ph. 448.448.3428 - Fax. 843.445.9116





TYPICAL ANCHOR BOLT DETAILS

FOUNDATION PLAN

SCALE ====== 3/16" = 1'-0"

- DENOTES RECESSED SLAB ON PLAN SEE ARCH. DRAWINGS FOR DEPTH OF RECESS & EXACT LOCATION.
- CJ – DENOTES CONTROL JOINTS ON PLAN
- SJ – DENOTES SAW JOINTS ON PLAN
- 4" CONC. SLAB REINF. W/ 6x6xW1.4xW1.4 WWF ON 4" SELECT FILL
- HVAC UNIT PAD PER MANUFACTURER'S REQUIREMENTS
- MBC – DENOTES PRE-ENGINEERED METAL BUILDING FRAME / COLUMN
- C1 – DENOTES HSS-4"x4"x3/16" W/ BASE PLATE 3/4"x10"x0'-10" W/ (4) 3/4" DIA. ANCHOR BOLTS W/ 8" MIN. EMBEDMENT

COLUMN FOOTING SCHEDULE				
MARK	FOOTING SIZE			FOOTING REINFORCEMENT
	THICK.	WIDTH	LENGTH	NO. OF BARS / BARS / SPACING
F1	2'-0"	7'-0"	7'-0"	#5 BARS @ 10" o.c. EACHWAY
F2	2'-0"	6'-0"	6'-0"	#5 BARS @ 10" o.c. EACHWAY
F3	2'-0"	4'-0"	4'-0"	#5 BARS @ 10" o.c. EACHWAY
F4	1'-0"	3'-0"	3'-0"	#5 BARS @ 10" o.c. EACHWAY

(F?) DENOTES FOOTING DESIGNATION ON PLAN

1. ALL REINFORCEMENT SHALL BE EACH WAY BOTTOM (U.N.O.) TYPICAL
2. MAINTAIN 3" OF CONCRETE AROUND ALL REINFORCEMENT (U.N.O.) TYPICAL

MBC – DENOTES METAL BUILDING COLUMN

NOTE:
FOUNDATION DESIGN IS BASED ON PRELIMINARY METAL BUILDING REACTIONS - THIS FOUNDATION DESIGN IS SUBJECT TO CHANGE BASED ON THE FINAL METAL BUILDINGS REACTIONS.

APPARATUS BAY SLAB DESIGN NOTE:
OWNER TO SUBMIT FINAL DESIGN VEHICLE SPECS FOR EQUIPMENT INTENDED TO UTILIZE APPARATUS BAY'S. BASED ON THIS SUBMITTAL FINAL SLAB DESIGN TO BE VERIFIED TO MEET IBC SECTION 1607.1.2.

FOUNDATION PLAN (ALTERNATE #1)

SCALE ====== 3/16" = 1'-0"

- DENOTES RECESSED SLAB ON PLAN SEE ARCH. DRAWINGS FOR DEPTH OF RECESS & EXACT LOCATION.
- CJ – DENOTES CONTROL JOINTS ON PLAN
- SJ – DENOTES SAW JOINTS ON PLAN
- 4" CONC. SLAB REINF. W/ 6x6xW1.4xW1.4 WWF ON 4" SELECT FILL
- HVAC UNIT PAD PER MANUFACTURER'S REQUIREMENTS
- MBC – DENOTES PRE-ENGINEERED METAL BUILDING FRAME / COLUMN
- C1 – DENOTES HSS-4"x4"x3/16" W/ BASE PLATE 3/4"x10"x0'-10" W/ (4) 3/4" DIA. ANCHOR BOLTS W/ 8" MIN. EMBEDMENT

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No. 5538
CERTIFICATE OF AUTHORIZATION

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
1801
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:

FINKLEA FIRE STATION #9

HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

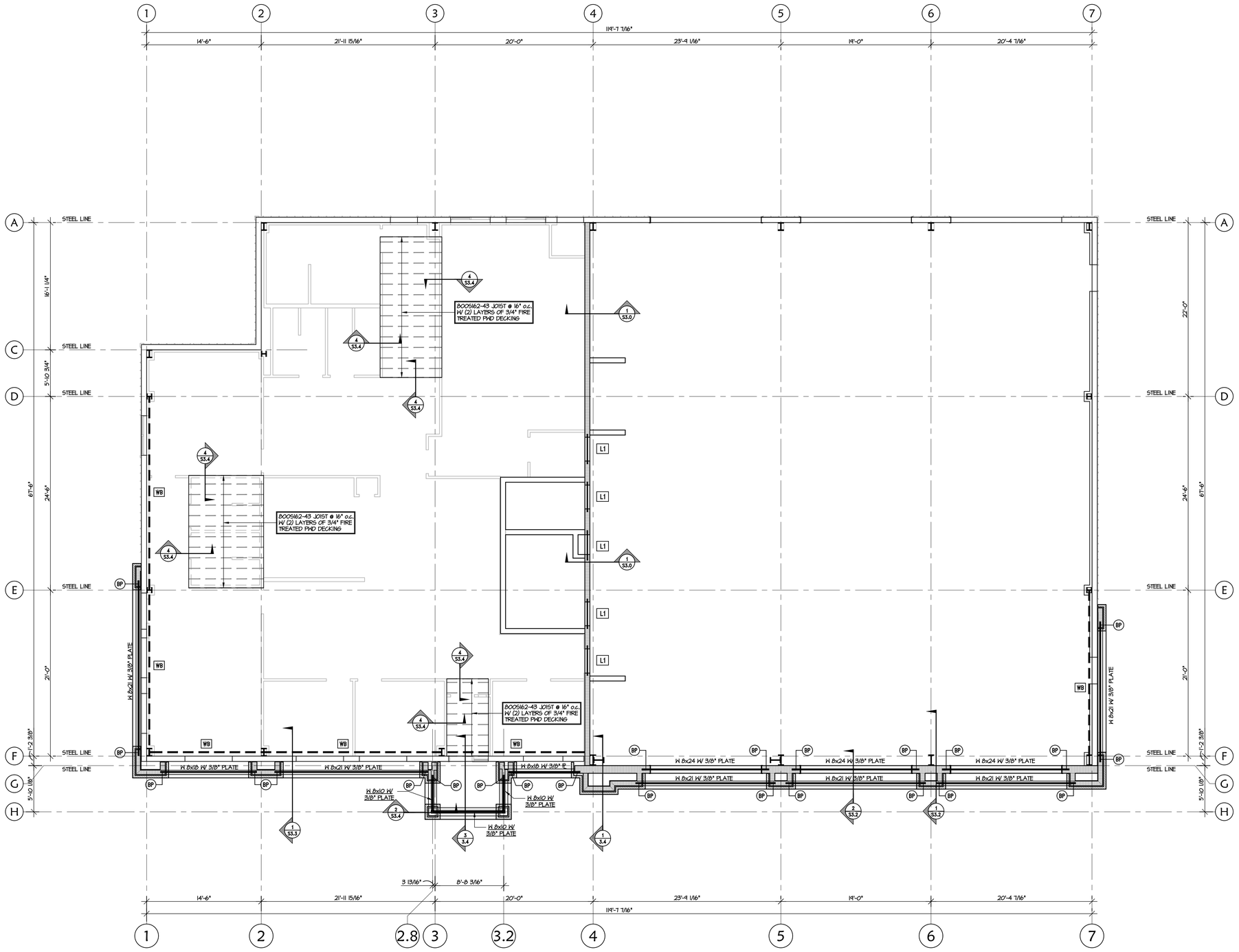
PROJECT NUMBER
24002

DRAWN: AGB
CHECKED: DL
DATE: 8-15-24

SHEET TITLE
Foundation Plan

SHEET NO.
S2.0

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STRUCTURAL ENGINEERS
514 Alder Street, Myrtle Beach, South Carolina
Ph. 448.448.3428 - Fax. 843.445.9116



LINTEL & FRONT ENTRY FRAMING PLAN

SCALE = = = = = = 3/16" = 1'-0"

L1 – DENOTES LINTEL 8" BOND BEAM REINF. W/ (2) #5 BARS CONT.

BP – DENOTES 5/8" x 7" x 0'-6" BRG. PLATE W/ (4) – 3/4" x 6" LG. HEADED STUDS

WB – DENOTES WIND BEAM @ (+/–) 14'-0" PER METAL BUILDING SUPPLIER

1 – DENOTES 8" CONC. SLAB REINF. W/ #4 BARS @ 12"o.c. EA. WAY, ON 2" 20 GA. COMPOSITE FORM DECK

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PROJECT

A NEW BUILDING REPLACEMENT FOR:

FINKLEA FIRE STATION #9

HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

PROJECT NUMBER
24002

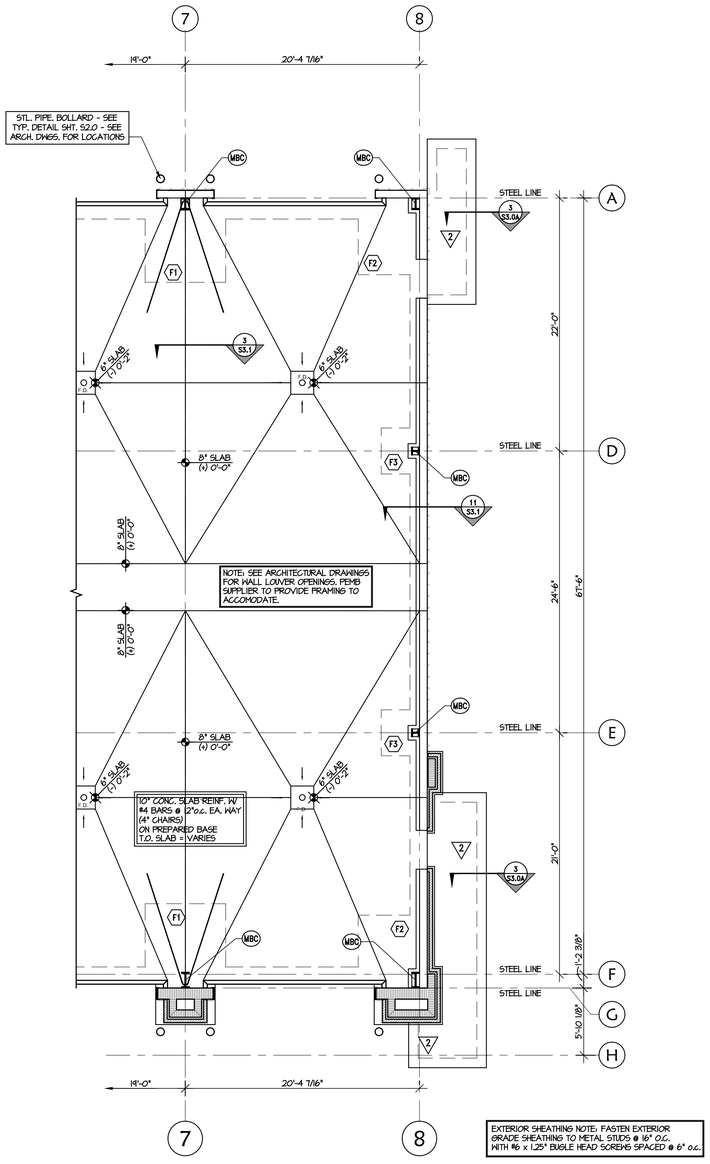
DRAWN:	CHECKED:
AGB	DL

DATE: 8-15-24

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SHEET TITLE
Lintel & Front Entry Framing

SHEET NO.
S2.1

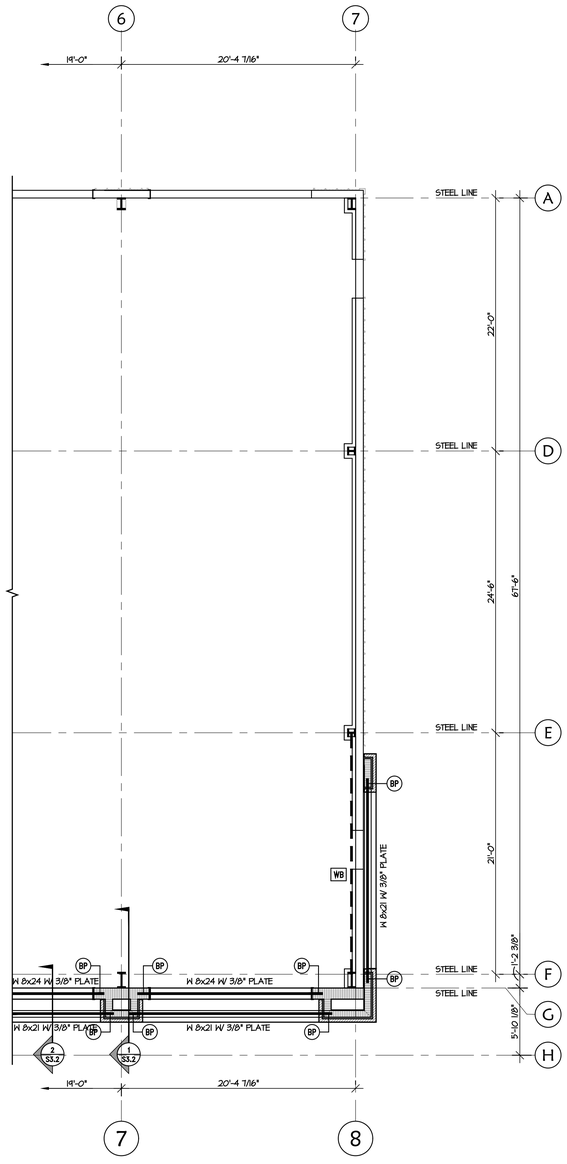


EXTERIOR SHEATHING NOTE: FASTEN EXTERIOR GRADE SHEATHING TO METAL STUDS @ 16" O.C. WITH #6 x 1.25" BUGLE HEAD SCREWS SPACED @ 6" o.c.

ADD ALTERNATE #1
FOUNDATION

SCALE ====== 3/16" = 1'-0"

- – DENOTES RECESSED SLAB ON PLAN SEE ARCH. DRAWINGS FOR DEPTH OF RECESS & EXACT LOCATION.
- CJ – DENOTES CONTROL JOINTS ON PLAN
- SJ – DENOTES SAW JOINTS ON PLAN
- 1 – 4" CONC. SLAB REINF. W/ 6x6xW1.4xW1.4 WWF ON 4" SELECT FILL
- 2 – HVAC UNIT PAD PER MANUFACTURER'S REQUIREMENTS
- MBC – DENOTES PRE-ENGINEERED METAL BUILDING FRAME / COLUMN
- C1 – DENOTES HSS-4"x4"x3/16" W/ BASE PLATE 3/4"x10"x0'-10" W/ (4) 3/4" DIA. ANCHOR BOLTS W/ 8" MIN. EMBEDMENT



ADD ALTERNATE #1
LINTEL & FRONT ENTRY FRAMING PLAN

SCALE ======3/16" = 1'-0"

- L1 – DENOTES LINTEL 8" BOND BEAM REINF. W/ (2) #5 BARS CONT.
- BP – DENOTES 5/8" x 7" x 0'-6" BRG. PLATE W/ (4) – 3/4" x 6" LG. HEADED STUDS
- WB – DENOTES WIND BEAM @ (+/-) 14'-0" PER METAL BUILDING SUPPLIER
- 1 – DENOTES 8" CONC. SLAB REINF. W/ #4 BARS @ 12"o.c. EA. WAY, ON 2" 20 GA. COMPOSITE FORM DECK

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CERTIFICATE OF AUTHORIZATION

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PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

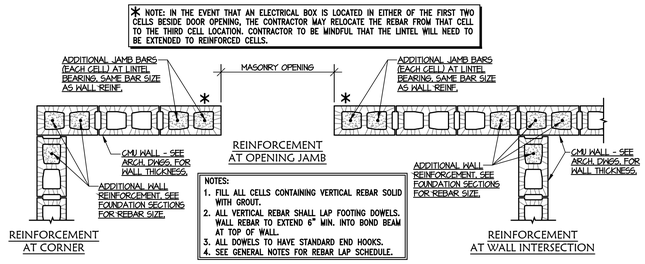
PROJECT NUMBER
24002

DRAWN: AGB
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DATE: 8-15-24

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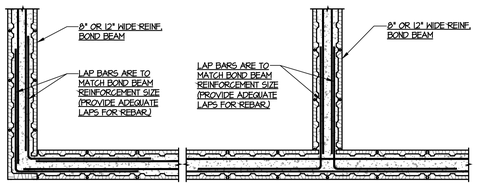
SHEET TITLE
Foundation & Lintel Plans for Alternate #1

SHEET NO.
S2.2



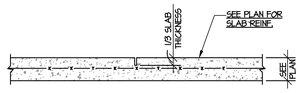
TYPICAL MASONRY WALL REINFORCEMENT DETAILS

NO SCALE



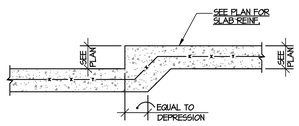
TYPICAL BOND BEAM INTERSECTION DETAILS

NO SCALE



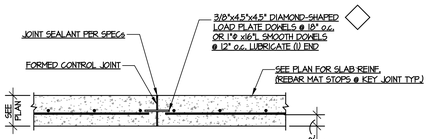
TYPICAL SAW JOINT DETAIL

NOTE: ALL AREAS EXCEPT TRUCK BAY AREA.

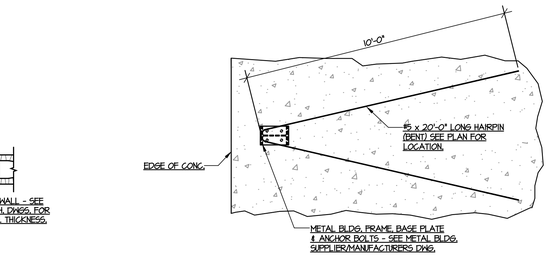


TYPICAL RECESSED SLAB DETAIL

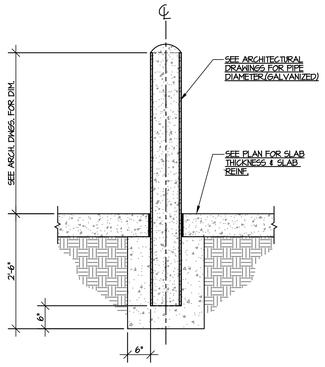
NOTE: MAINTAIN SLAB THICKNESS AT RECESSED SLABS



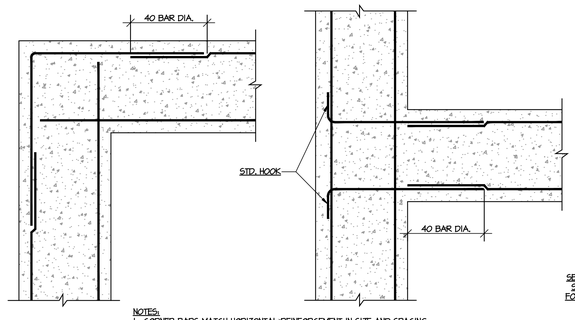
TYPICAL CONTROL JOINT DETAIL
@ FIRE TRUCK BAYS



TYPICAL HAIRPIN DETAIL

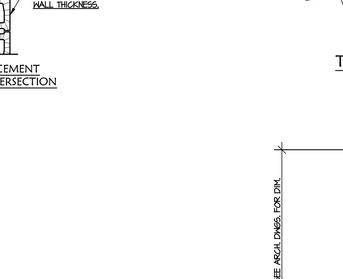


TYPICAL BOLLARD DETAIL

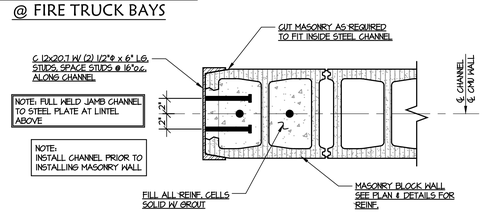


NOTES:
1. CORNER BARS MATCH HORIZONTAL REINFORCEMENT IN SIZE AND SPACING.
2. FOR SINGLE LAYER WALLS, USE SINGLE BARS AS SHOWN.

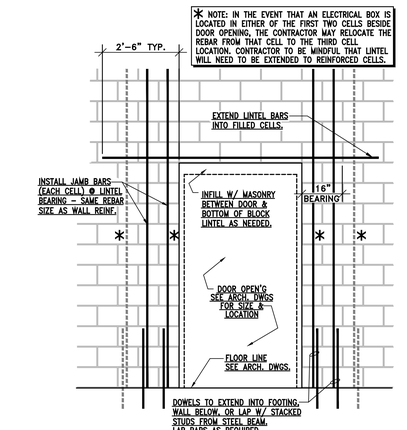
TYPICAL REINFORCEMENT DETAIL OF
CORNERS AND INTERSECTIONS @ WALL FOOTING



TYPICAL SLAB REINF. DETAIL
@ FIRE TRUCK BAYS

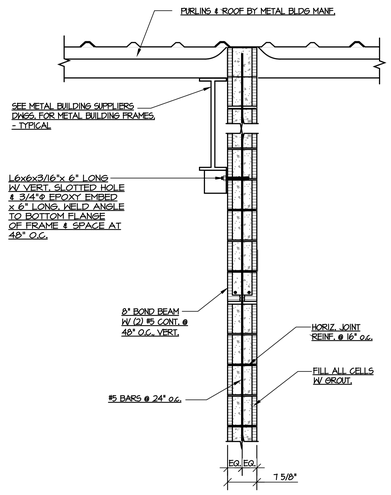


TYP. JAMB DETAIL @ TRUCK BAY DOORS



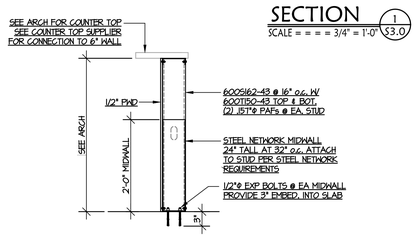
TYP. ADD'L REINFORCEMENT @ MASONRY DOOR OPENING

NO SCALE

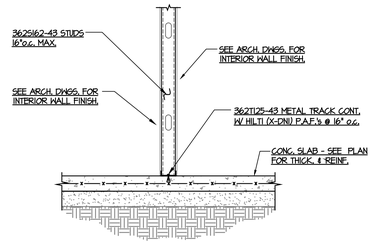


SECTION 1/S3.0

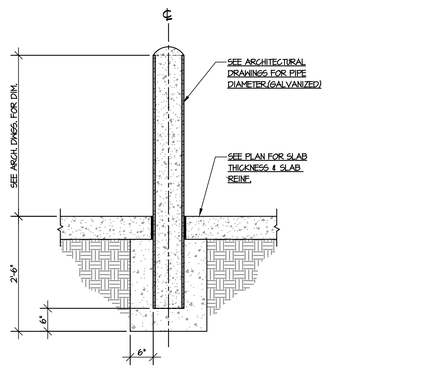
SCALE = = = = 3/4" = 1'-0"



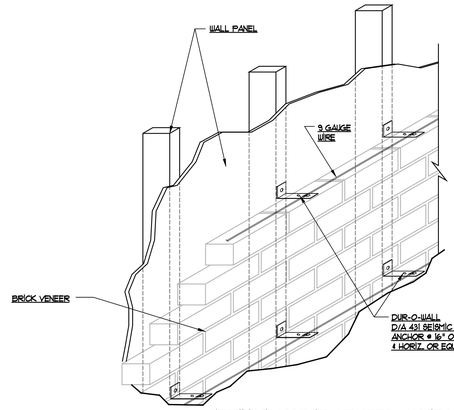
TYPICAL KNEEWALL SUPPORT
@ CANTILEVERED COUNTER TOP



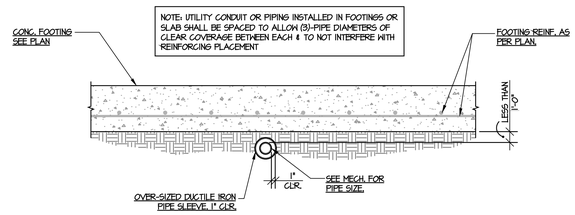
TYP. NON-LOAD BEARING
STUD WALL ATTACHMENT TO SLAB



TYPICAL BOLLARD DETAIL



SEISMIC-NOTCH VENEER ANCHORS



TYPICAL DETAIL FOR UTILITIES BELOW WALL FOOTING
(DEPTH LESS THAN 1'-0")

NOTE: PROTECTION OF UTILITY NOT REQUIRED WHEN DEPTH BELOW FOOTING EXCEEDS 1'-0" OR (6)-PIPE DIAMETERS TO TOP OF PIPE.

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PROJECT

FINKLEA FIRE STATION #6

A NEW BUILDING REPLACEMENT FOR:
HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

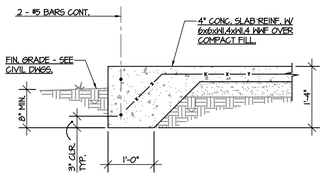
PROJECT NUMBER
24002

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DATE:	8-15-24

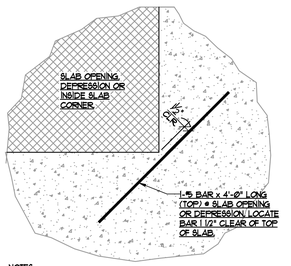
Weatherly
STRUCTURAL ENGINEERS
514 Alder Street, Myrtle Beach, South Carolina
Ph. 448.448.3428 – Fax. 843.445.9116

SHEET TITLE
Foundation Sections & Details

SHEET NO.
S3.0



TYPICAL TOE FOOTING
AT EXTERIOR SLABS



NOTES:
1. DETAIL APPLIES AT BOTH ELEVATED AND SLABS ON GRADE.
2. DETAIL APPLIES TO SLAB DEPRESSIONS GREATER THAN 1/4 TYPICAL SLAB THICKNESS.

TYPICAL BARS @ SLAB CORNER

MINIMUM CONCRETE COVER

A. CONCRETE CAST AGAINST EARTH:	
1. ALL BARS	3" COVER
B. CONCRETE EXPOSED TO EARTH OR WEATHER	
1. #6 THROUGH #18 BARS	2" COVER
2. #5 BAR AND SMALLER	1-1/2" COVER
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
1. SLABS & WALLS #14 AND #18 BARS	1-1/2" COVER
2. SLABS & WALLS #11 BAR AND SMALLER	3/4" COVER
3. BEAMS & COLUMNS (ALL REINFORCEMENT)	1-1/2" COVER

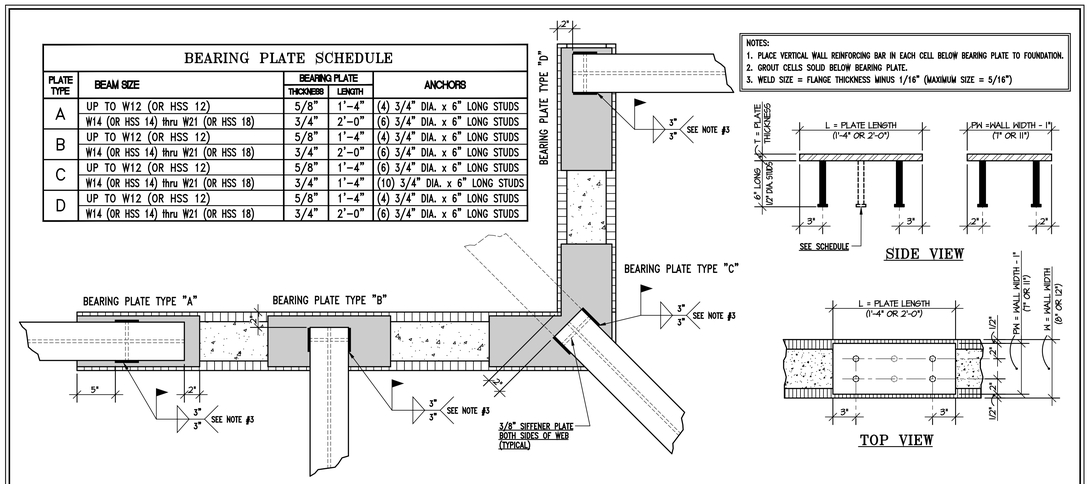
REBAR LAP SPLICES IN REINFORCED MASONRY

BAR SIZE	REQUIRED LAP
#4 BAR	24" LAP
#5 BAR	30" LAP
#6 BAR	48" LAP
#7 BAR	60" LAP
#8 BAR	90" LAP

BEARING PLATE SCHEDULE

PLATE TYPE	BEAM SIZE	BEARING PLATE THICKNESS	BEARING PLATE LENGTH	ANCHORS
A	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(4) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	2'-0"	(6) 3/4" DIA. x 6" LONG STUDS
B	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(4) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	2'-0"	(6) 3/4" DIA. x 6" LONG STUDS
C	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(6) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	1'-4"	(10) 3/4" DIA. x 6" LONG STUDS
D	UP TO W12 (OR HSS 12)	5/8"	1'-4"	(4) 3/4" DIA. x 6" LONG STUDS
	W14 (OR HSS 14) thru W21 (OR HSS 18)	3/4"	2'-0"	(6) 3/4" DIA. x 6" LONG STUDS

NOTES:
1. PLACE VERTICAL WALL REINFORCING BAR IN EACH CELL BELOW BEARING PLATE TO FOUNDATION.
2. GROUT CELLS SOLID BELOW BEARING PLATE.
3. WELD SIZE = FLANGE THICKNESS MINUS 1/16" (MAXIMUM SIZE = 5/16")



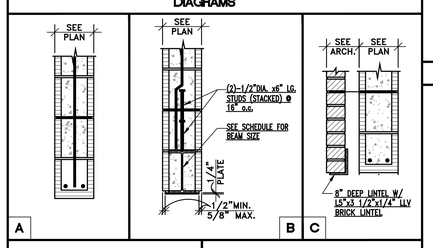
TYPICAL BEARING PLATE SCHEDULE AND DETAILS

MASONRY BLOCK LINTEL SCHEDULE

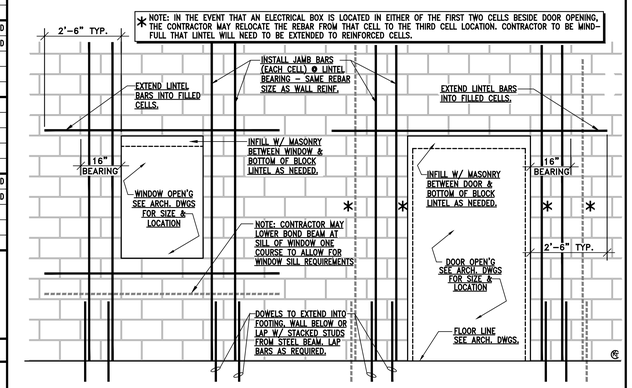
		MARK	LINTEL DISCRIPTION	OPENING WIDTH FOR NON-LOAD BEARING WALL	REFERENCE DIAGRAM
8" MASONRY BLOCK	W/O BRICK	BB8.1	8" DEEP BOND BEAM W/ 2-#5 BARS CONT.	6'-0" WIDE MAX.	DIAGRAM A
		BB8.2	16" DEEP BOND BEAM W/ 2-#6 BARS CONT.		DIAGRAM A
		B8.3	W 8x10 W/ 1/4" PLATE CONT.	12'-0" WIDE MAX.	DIAGRAM B
		B8.4	W 8x18 W/ 1/4" PLATE CONT.	14'-0" WIDE MAX.	DIAGRAM B
		B8.5	W 8x28 W/ 1/4" PLATE CONT.	16'-0" WIDE MAX.	DIAGRAM B
	W/ BRICK	BB8.1	8" DEEP BOND BM. W/ 2-#5 BARS CONT. W/ BENT PLATE	7'-8" WIDE MAX.	DIAGRAM C OR D
		BB8.2	16" DEEP BOND BM. W/ 2-#6 BARS CONT. W/ BENT PLATE	10'-0" WIDE MAX.	DIAGRAM C OR D
		B8.3	W 8x15 W/ 1/4" PLATE CONT.	12'-0" WIDE MAX.	DIAGRAM E
		B8.4	W 8x24 W/ 1/4" PLATE CONT.	14'-0" WIDE MAX.	DIAGRAM E
		B8.5	W 16x26 W/ 3/8" PLATE CONT.	16'-0" WIDE MAX.	DIAGRAM E
12" MASONRY BLOCK	W/O BRICK	B12.1	8" DEEP BOND BEAM W/ 2-#5 BARS CONT.	6'-0" WIDE MAX.	DIAGRAM A
		B12.2	16" DEEP BOND BEAM W/ 2-#6 BARS CONT.		DIAGRAM A
		B12.3	W 8x15 W/ 1/4" PLATE CONT.	12'-0" WIDE MAX.	DIAGRAM B
		B12.4	W 8x24 W/ 1/4" PLATE CONT.	14'-0" WIDE MAX.	DIAGRAM B
		B12.5	W 16x26 W/ 3/8" PLATE CONT.	16'-0" WIDE MAX.	DIAGRAM B
	W/ BRICK	BB12.1	8" DEEP BOND BM. W/ 2-#5 BARS CONT. W/ BENT PLATE	5'-0" WIDE MAX.	DIAGRAM C OR D
		BB12.2	16" DEEP BOND BM. W/ 2-#6 BARS CONT. W/ BENT PLATE		DIAGRAM C OR D
		BB12.3	W 8x10 W/ 1/4" PLATE CONT.	10'-0" WIDE MAX.	DIAGRAM E
		BB12.4	W 8x18 W/ 1/4" PLATE CONT.	12'-0" WIDE MAX.	DIAGRAM E
		BB12.5	W 8x28 W/ 1/4" PLATE CONT.	14'-0" WIDE MAX.	DIAGRAM E

CONTRACTOR'S NOTES:
1. CONTRACTOR MAY USE A STEEL ANGLE OF THE SAME SIZE (OR GREATER) IN LIEU OF BENT PLATE.
2. SOME LINTELS IN THIS SCHEDULE MAY NOT BE USED. CONTRACTOR MAY SELECT APPROPRIATE LINTEL ACCORDING TO OPENING SIZE AND WALL CONSTRUCTION, UNLESS NOTED OTHERWISE.
3. SEE ARCHITECTURAL DRAWINGS FOR WALL WIDTHS AND VENEER COURSING.
4. ALL MASONRY LINTEL BEARING TO BE 16" MIN. ON EACH SIDE.
5. BRICK VENEER SUPPORT TO BEAR 8" MIN. ON EACH SIDE.
6. SEE STRUCTURAL PLAN AND ADDITIONAL WALL SECTIONS FOR WALL REINFORCEMENT AND SPACING.

DIAGRAMS



MASONRY OPENING REINFORCEMENT DETAIL



STEEL LINTEL BEARING DETAIL

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SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 15317
08-15-24
REGISTERED ENGINEER
ALEIGH BRYAN WEATHERLY

SOUTH CAROLINA
WEATHERLY ENGINEERING LLC
MYRTLE BEACH, SC
No. 5538
CERTIFICATE OF AUTHORIZATION

OWNER

HORRY COUNTY
THE INDEPENDENT REPUBLIC
1801
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

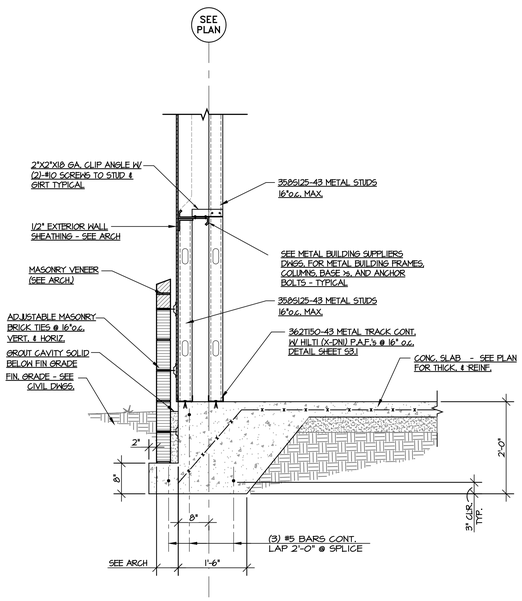
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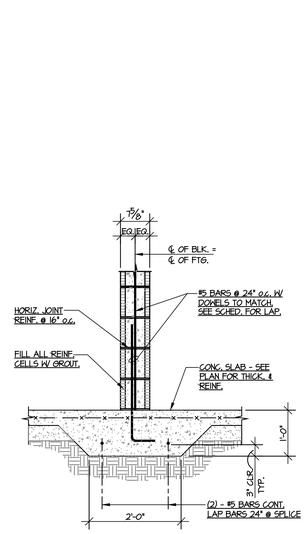
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514 Alder Street, Myrtle Beach, South Carolina
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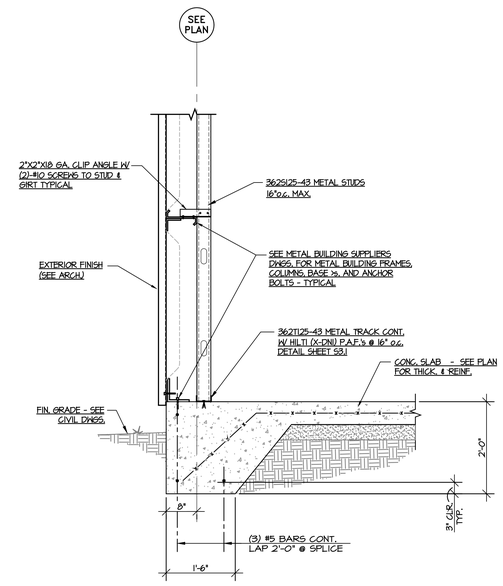
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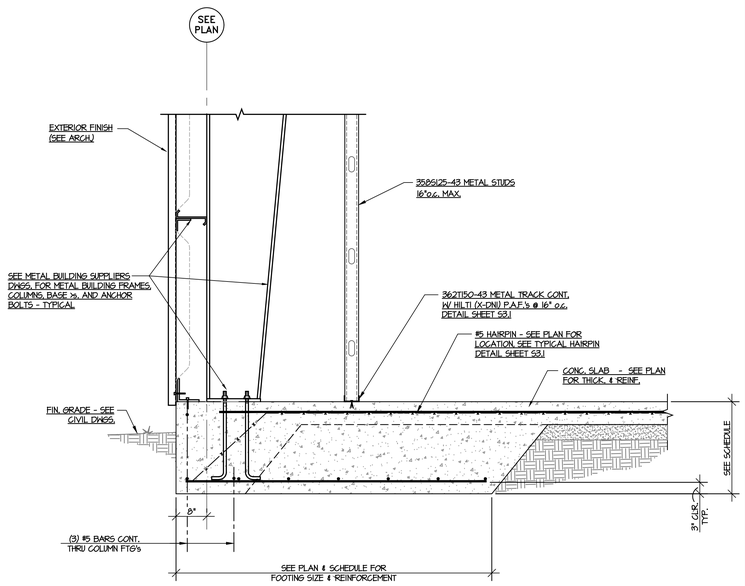
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SECTION 2 S3.1
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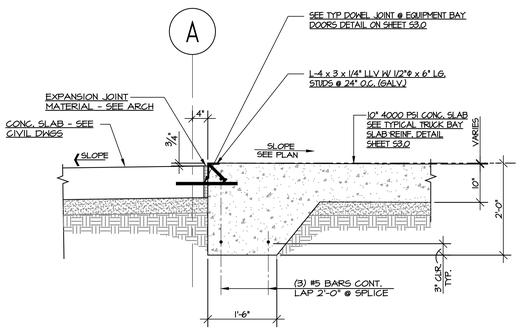
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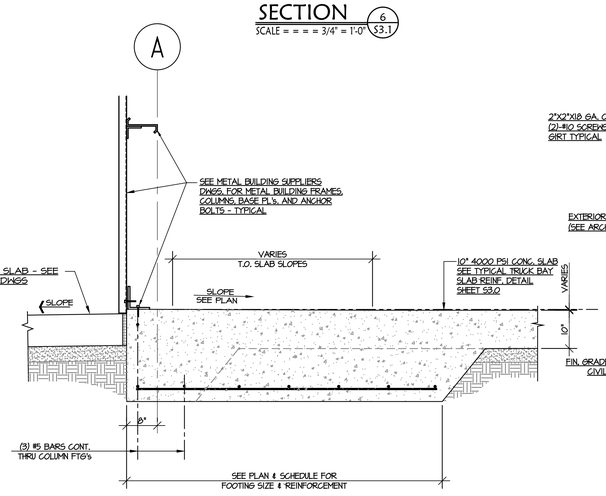
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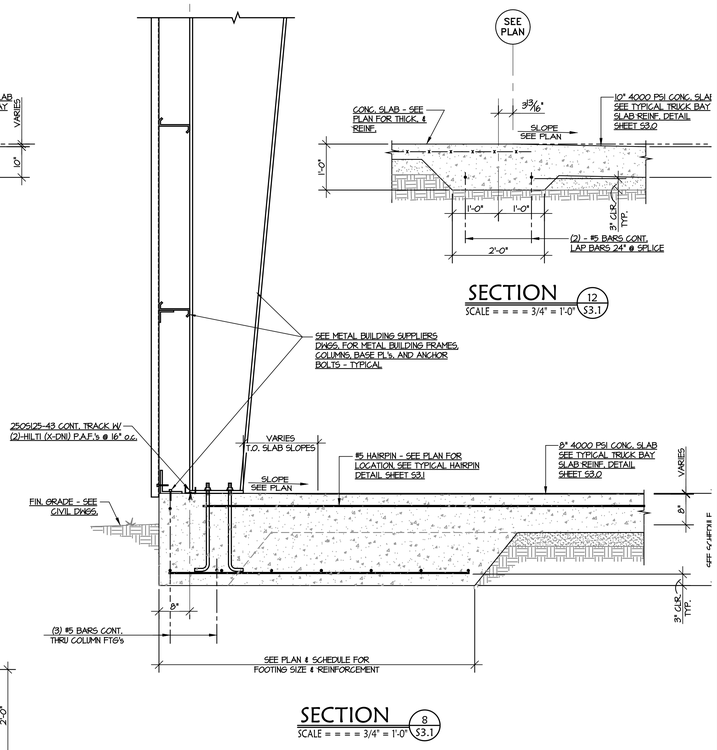
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SECTION 7 S3.1
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SECTION 11 S3.1
SCALE = = = = 3/4" = 1'-0"



SECTION 8 S3.1
SCALE = = = = 3/4" = 1'-0"

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CERTIFICATE OF AUTHORIZATION

OWNER

HORRY COUNTY
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S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #9

HORRY COUNTY, SOUTH CAROLINA

WE# 24-176

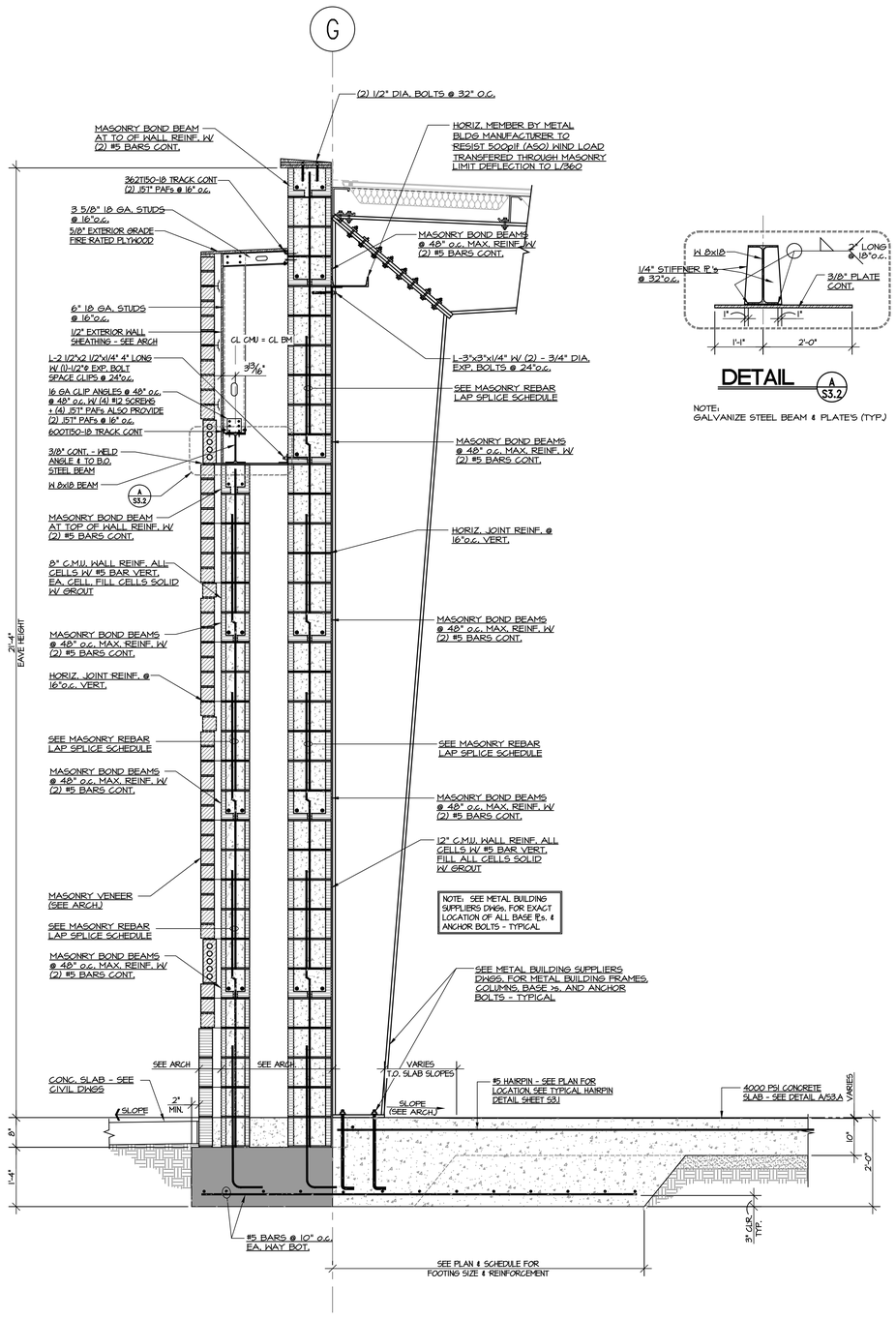
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24002

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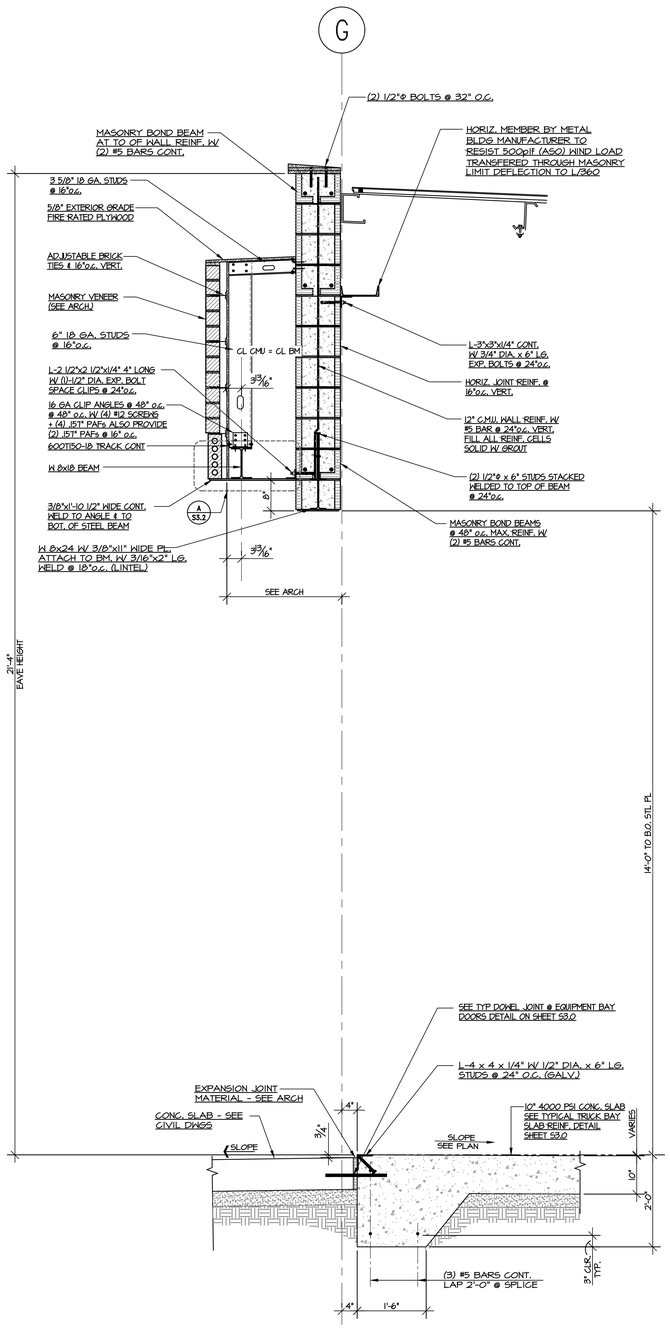


DETAIL A S3.2

NOTE:
GALVANIZE STEEL BEAM & PLATE'S (TYP.)

SECTION 1 / SCALE = = = = 3/4" = 1'-0" / S3.2

NOTE:
GALVANIZE STEEL BEAM & PLATE'S (TYP.)



SECTION 2 / SCALE = = = = 3/4" = 1'-0" / S3.2

NOTE:
GALVANIZE STEEL BEAM & PLATE'S (TYP.)

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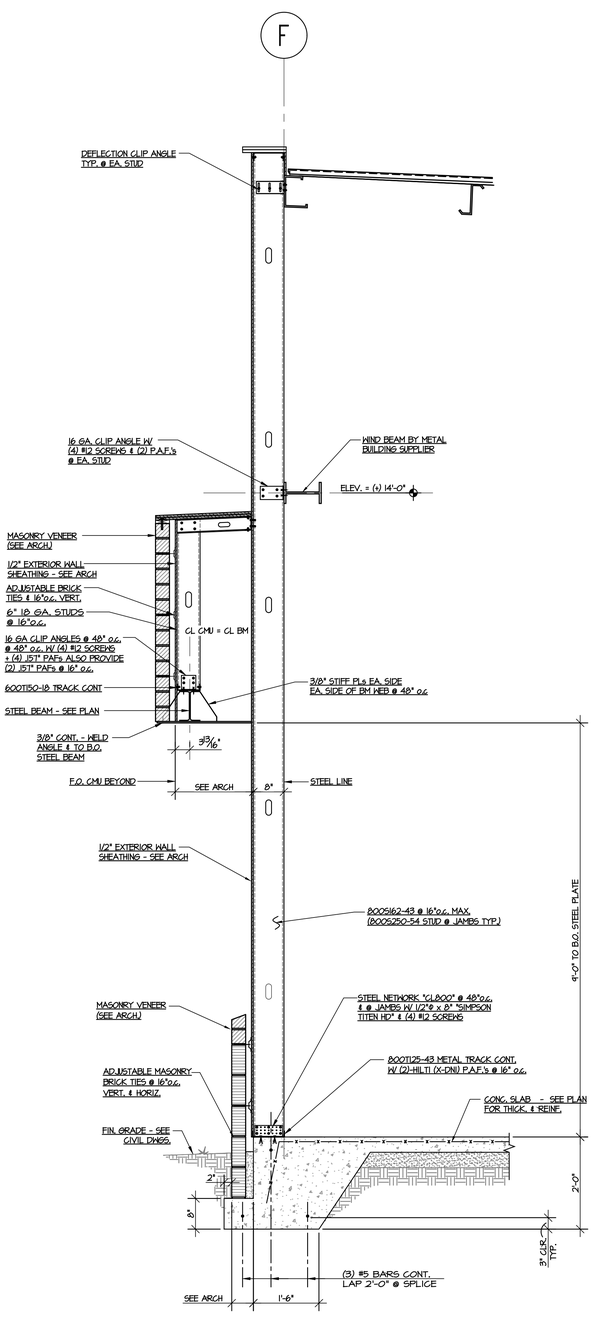
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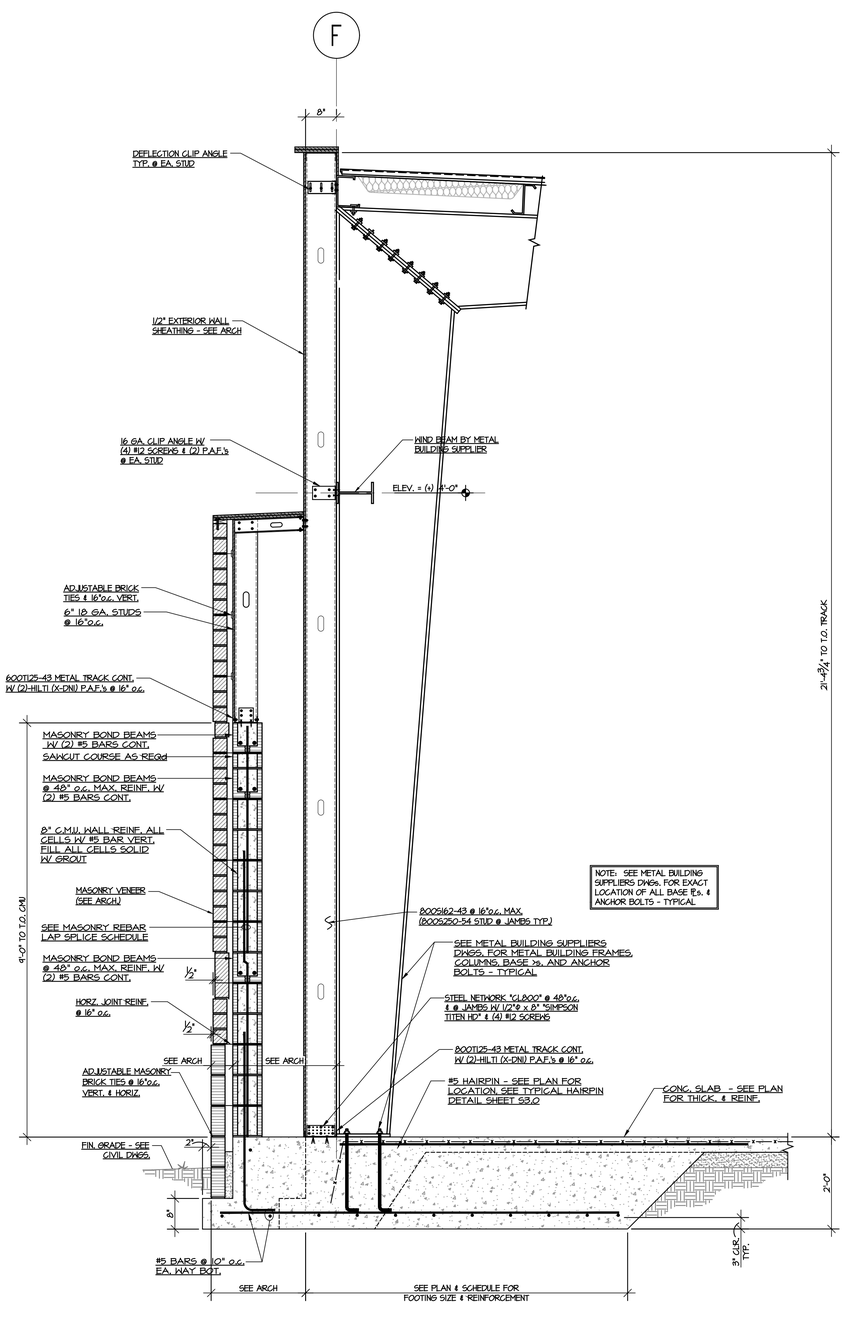
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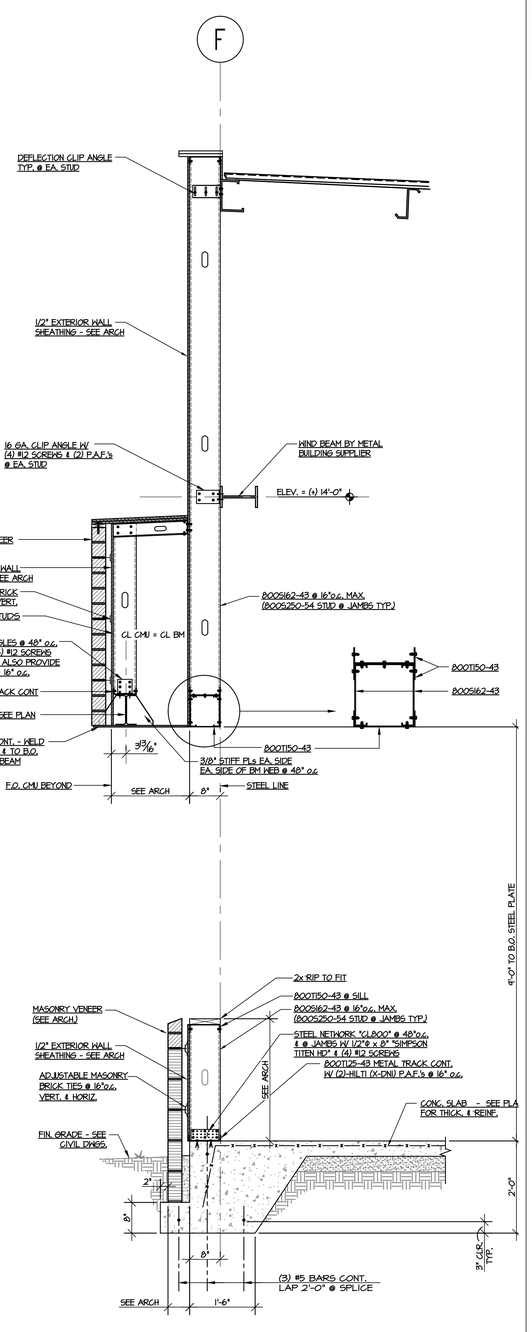
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NOTE:
GALVANIZE STEEL BEAM & PLATE'S (TYP.)



SECTION 2 / S3.3
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NOTE:
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SECTION 3 / S3.3
SCALE = = = = 3/4" = 1'-0"

NOTE:
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FINKLEA FIRE STATION #9

A NEW BUILDING REPLACEMENT FOR:

HORRY COUNTY, SOUTH CAROLINA

FRAMING SECTIONS & DETAILS

WE# 24-176

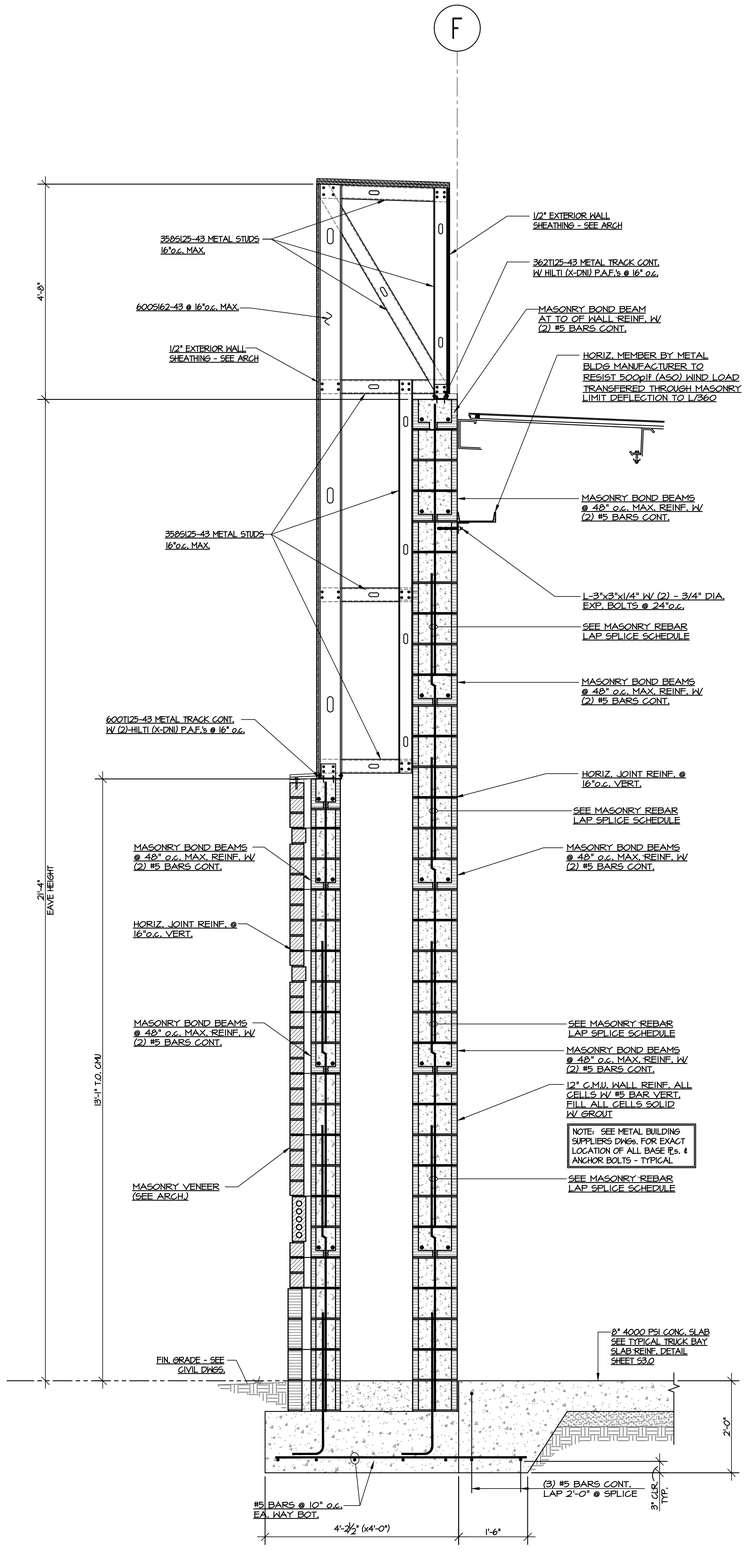
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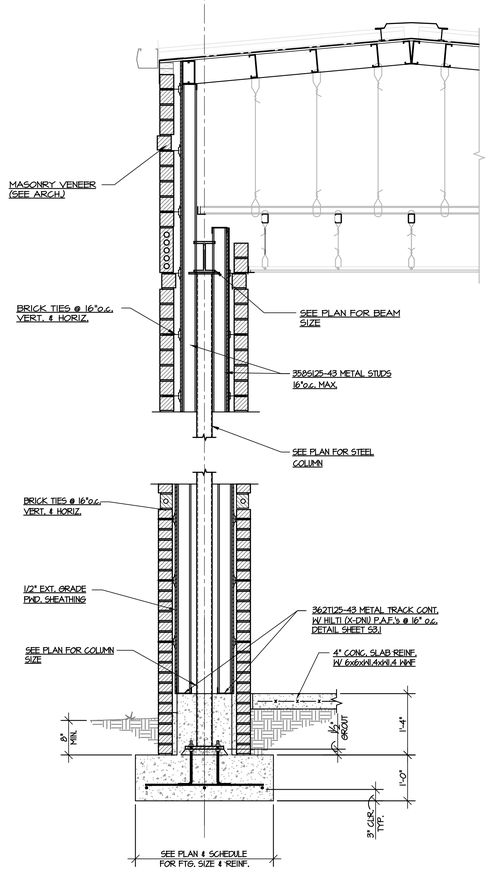
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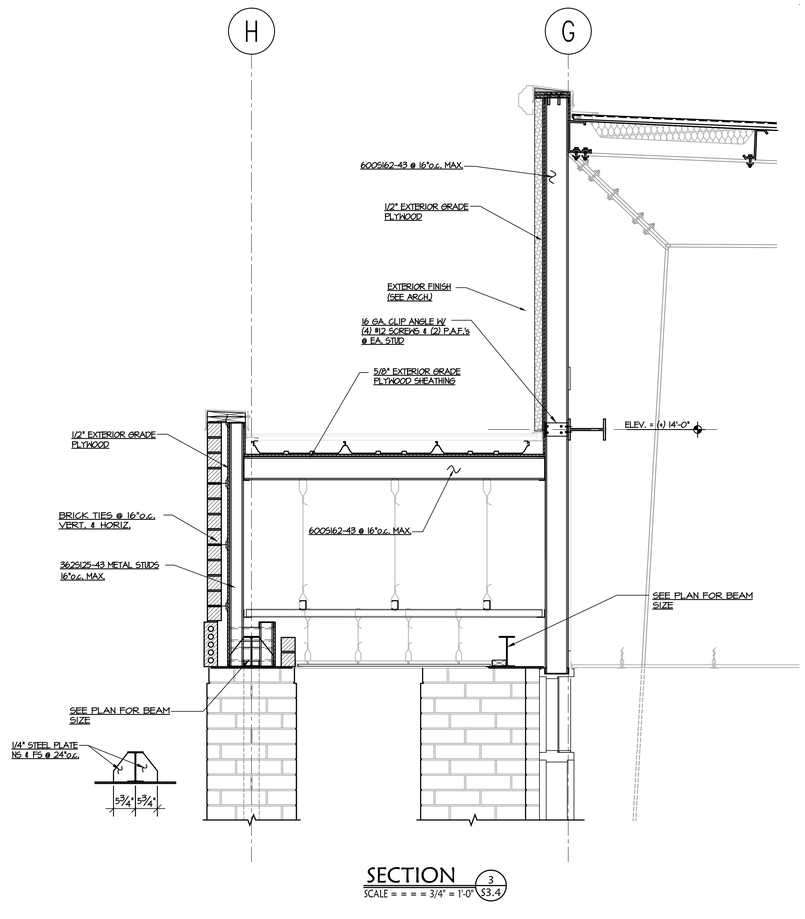


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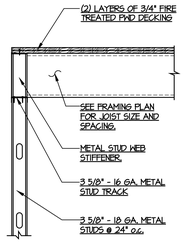
NOTE:
GALVANIZE STEEL BEAM & PLATE'S (TYP.)



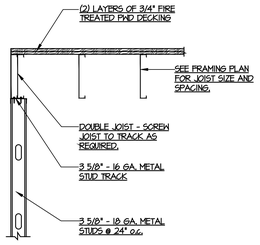
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SECTION 3 / S3.4
SCALE = = = = 3/4" = 1'-0"



SHEATHING ATTACHMENT DETAIL @ EXTERIOR WALL PERPENDICULAR TO JOIST



SHEATHING ATTACHMENT DETAIL @ EXTERIOR WALL PARALLEL TO JOIST

SECTION 4 / S3.4
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HORRY COUNTY, SOUTH CAROLINA

FRAMING SECTIONS & DETAILS

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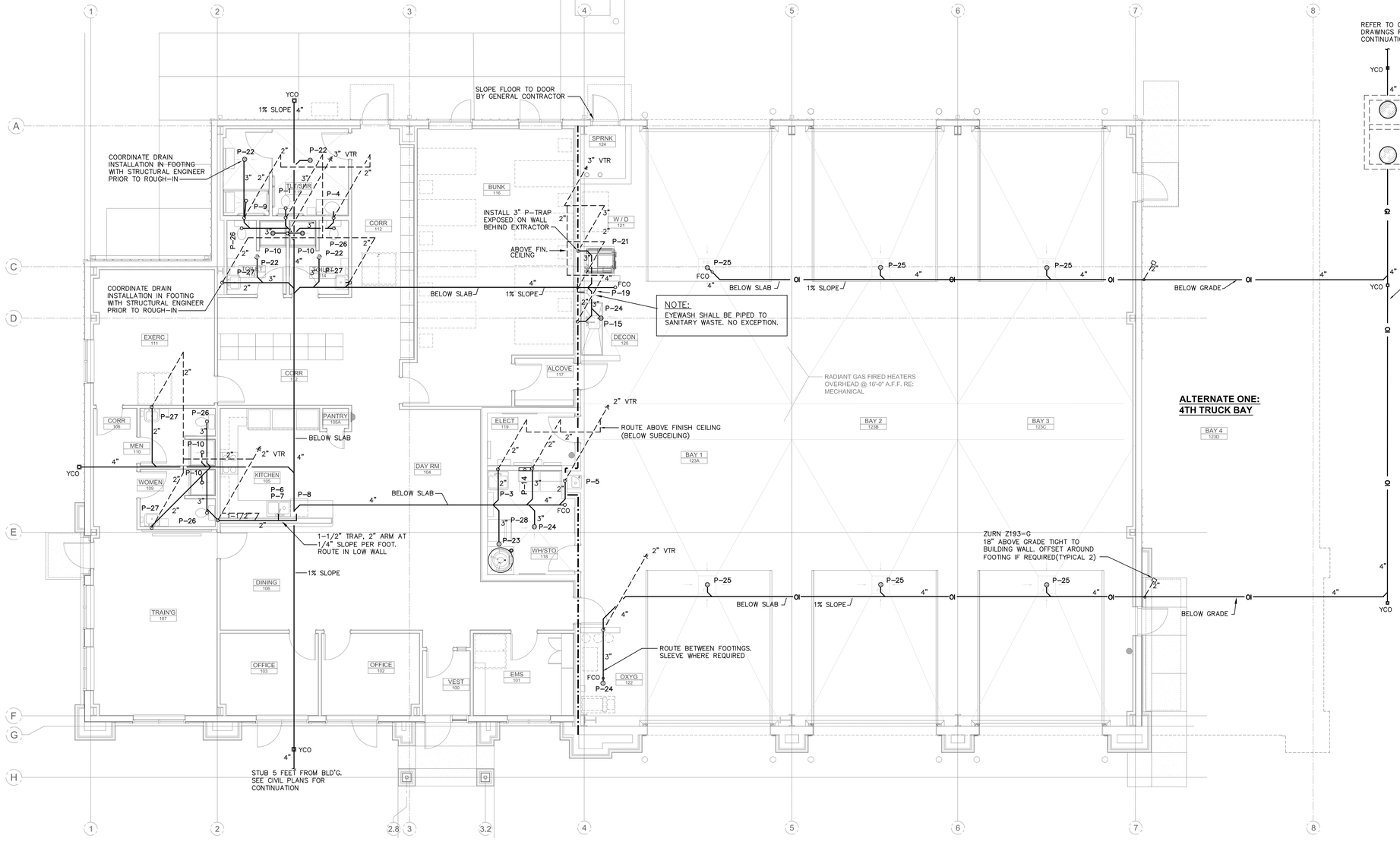
SHEET NO.
S3.4

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BUILDING LOAD SUMMARY				
SEWER	DOMESTIC WATER	PROPANE GAS (MBTU)		
FIXTURE UNITS	GPM DEMAND	DOMESTIC HOT WATER	HEATING DEMAND	MISC.
36.5	27 GPM	400	180 (270 ALT #1)	60

GENERAL NOTES:

1. REFER TO SHEETS P4.0 & P4.1 FOR SCHEDULES, NOTES, AND DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED AND SMOKE BARRIER WALLS/CEILINGS/ASSEMBLIES. FIRE/SMOKE/ RATED PENETRATIONS WILL BE REQUIRED, AS APPLICABLE PER THE INTERNATIONAL BUILDING CODE/INTERNATIONAL PLUMBING CODE.
3. INSTALLATION OF ALL EQUIPMENT, PIPING, ETC. IN SPACE BETWEEN/THROUGH JOIST SHALL BE COORDINATED WITH STRUCTURE/TRUSSES DESIGN. WHERE TRUSS BLOCK-OUTS ARE REQUIRED; COORDINATE DURING THE SHOP DRAWING/SUBMITTAL PROCESS.



NOTE:
ALL UNDERFLOOR WASTE/SEWER PIPING SHALL BE SCHEDULE 80 PVC. USE ONLY WYE'S AND 45° ELBOWS FOR BRANCH FITTINGS AND CHANGE OF DIRECTION. THE USE OF TEE'S OR 90° ELBOWS IS NOT ACCEPTABLE

1 P1.0 **FLOOR PLAN -DWV**
SCALE: 3/16"=1'-0"

PLAN NORTH / TRUE NORTH

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SOUTH CAROLINA RAST DALLERY ENGINEERS, PC No. 3251 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17473 9/13/24 ROBERT J. DALLERY

OWNER

HORRY COUNTY THE INDEPENDENT REPUBLIC S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

SHEET TITLE
FLOOR PLAN - DWV

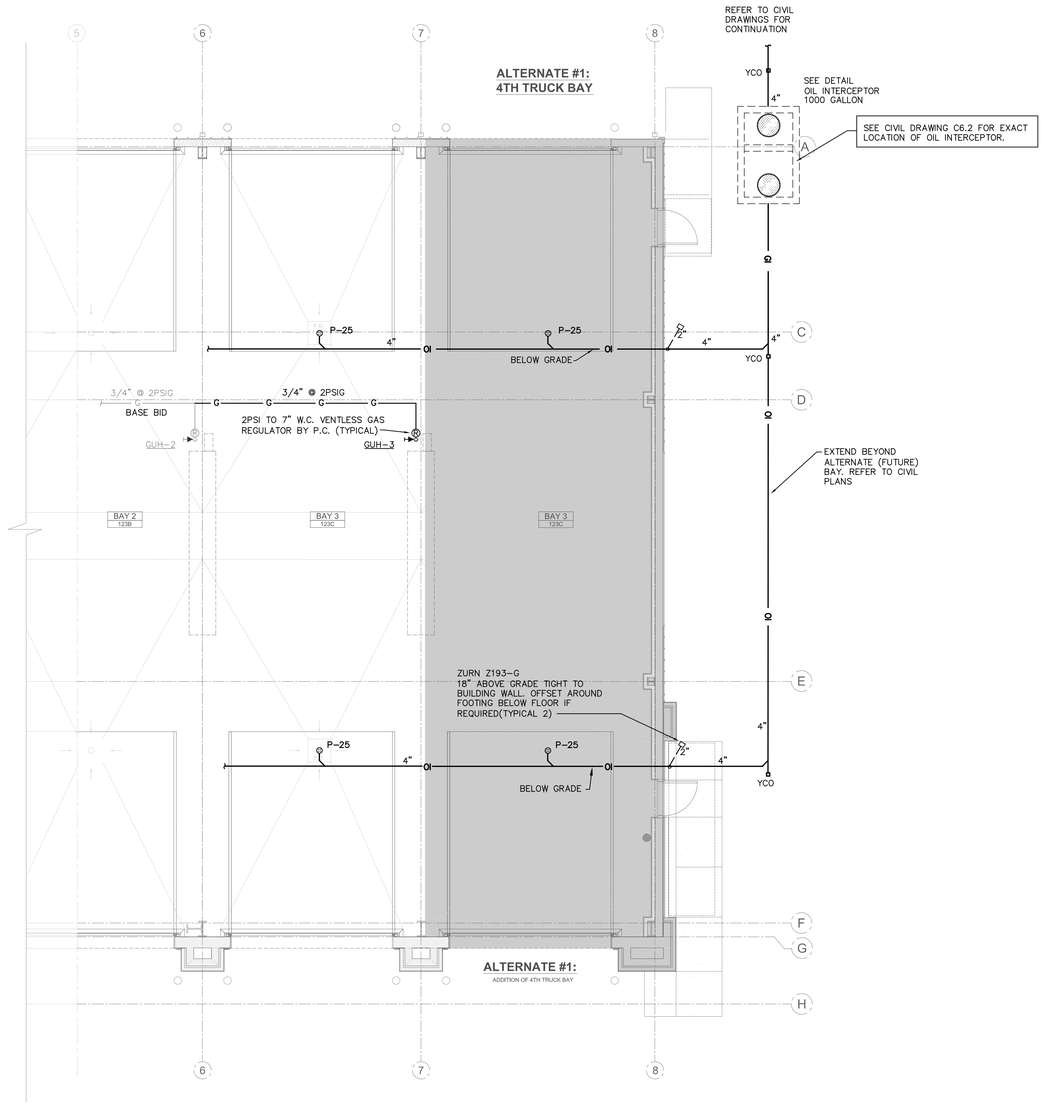
SHEET NO.
P1.0

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PHONE: (843) 232-0408

JOB NO: 24029

ALTERNATE ONE:

1. ADD ALTERNATE NUMBER ONE
CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING , MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE FOURTH TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.



1 P3.0 **ALTERNATE #1 - 4TH TRUCK BAY**
SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. REFER TO SHEETS P4.0 & P4.1 FOR SCHEDULES, NOTES, AND DETAILS.
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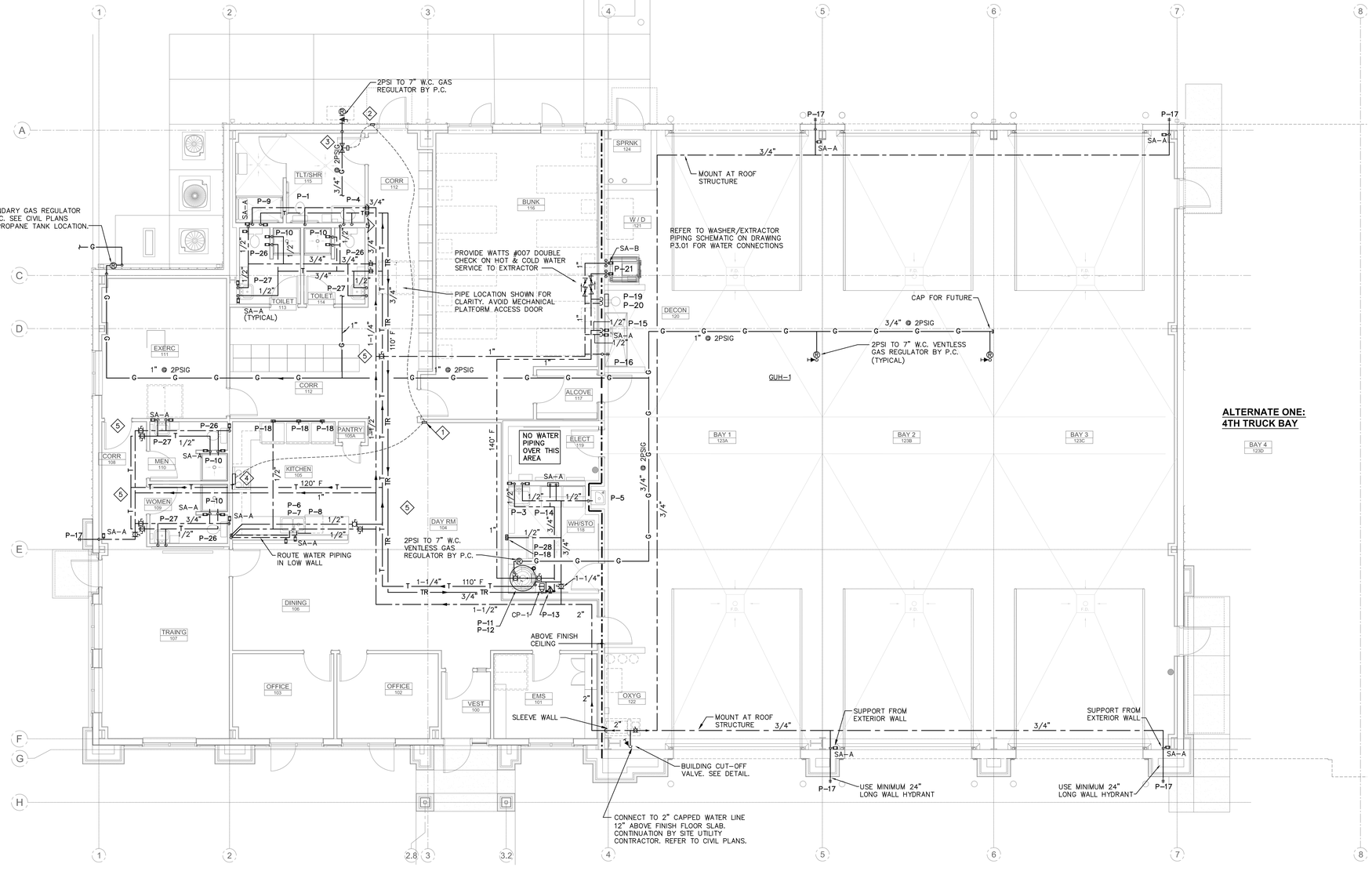
SHEET TITLE
ALTERNATE #1 FLOOR PLAN

SHEET NO.
P1.1

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NOTE:
WATER PIPING SHOWN DIAGRAMMATICALLY ABOVE CEILINGS. COORDINATE ROUTING OF WATER PIPING WITH MECHANICAL EQUIPMENT ATTIC ACCESS DOORS IN CEILINGS. ADJUST ROUTING ACCORDINGLY.

PLAN NORTH / TRUE NORTH

1 P2.0 FLOOR PLAN - WATER/GAS
SCALE: 3/16"=1'-0"

GENERAL NOTES:

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3. INSTALLATION OF ALL EQUIPMENT, PIPING, ETC. IN SPACE BETWEEN/THROUGH JOIST SHALL BE COORDINATED WITH STRUCTURE/TRUSSES DESIGN. WHERE TRUSS BLOCK-OUTS ARE REQUIRED; COORDINATE DURING THE SHOP DRAWING/SUBMITTAL PROCESS.

KEYED NOTES (THIS SHEET):

1. INSTALL ISIMET FIRE STATION COOKING CONTROLLER: MODEL #FLAV2-F-P COOKING CONTROLLER PANEL SHALL BE FLUSH MOUNTED TO WALL. PANEL SHALL BE POWDER COATED STEEL BOX WITH BRUSHED STAINLESS STEEL FACE PLATE. INPUT CIRCUIT SHALL BE 120 VOLT, OUTPUT CIRCUIT SHALL BE 24 VOLT FROM E-SERIES ELECTRIC CONTACT ENCLOSURE WITH LOGIC DEVICE TO ACTIVATE THE 24 VOLT GAS SOLENOID(S) AS INDICATED ON DRAWING. CONTROLLER SHALL CONTAIN EMERGENCY SHUT-OFF BUTTON, ON/OFF SWITCH, POWER LED INDICATORS. SYSTEM SHALL BE INSTALLED SO THAT WHEN A FIRE HOUSE CALL IS RECEIVED, THE FLA AUTOMATICALLY DISABLES GAS AND ELECTRIC UTILITIES UNLESS THE BYPASS BUTTON IS PUSHED WITHIN 30 SECONDS OF THE FIRE CALL. UTILITIES THEN REMAIN ACTIVATED. MOUNT PER ADA HEIGHT REQUIREMENTS. THE CONTRACTOR SHALL FURNISH PROPER INSTRUCTIONS TO THE OWNER CONCERNING OPERATION AND MAINTENANCE OF THE ISIMET SYSTEM.
2. INSTALL ISIMET #OGC-F-P-C-W OUTDOOR GRILL CONTROLLER. PANEL SHALL BE FLUSH MOUNTED TO WALL AND HAVE A STEEL BOX WITH BRUSHED STAINLESS STEEL FACE PLATE, CLEAR COVER, WEATHERPROOF SEAL, 24 VOLT DC POWER SUPPLY FROM FLAV2 CONTROLLER TO ACTIVATE THE GAS SOLENOID AS INDICATED ON DRAWING. PANEL SHALL CONTAIN POWER LED INDICATOR, GAS ON/OFF SWITCHES.
3. INSTALL ISIMET #S-30X-VA-611-U GAS RATED 3/4" SOLENOID VALVE ABOVE CEILING. PROVIDE WITH FACTORY PRESSURE TESTED "BALL VALVE, SOLENOID, INTEGRAL IN-LINE STRAINER, AND UNIONS FOR SERVICE ASSEMBLY.
4. INSTALL ISIMET CONTACT ENCLOSURE, ISIMET #E-31-1X3/50-S-L SURFACE MOUNTED NEMA ENCLOSURE WITH SPECIFIED LATCHING OR DEDICATED CONTACTS FOR RANGE/OVEN POWER. (ABOVE CEILING)
5. INSULATE ALL WATER PIPING ABOVE FINISH FLOOR SLAB. BRANCH VALVES TO BE ACCESSIBLE ABOVE CEILING IN ATTIC SPACE. PIPING SHOW DIAGRAMMATICALLY, COORDINATE ROUTING TO AVOID MENCHANICAL EQUIPMENT AND CEILING MOUNTED MECHANICAL PLATFORM ACCESS DOORS.

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SHEET TITLE
FLOOR PLAN - WATER/GAS

SHEET NO.
P2.0

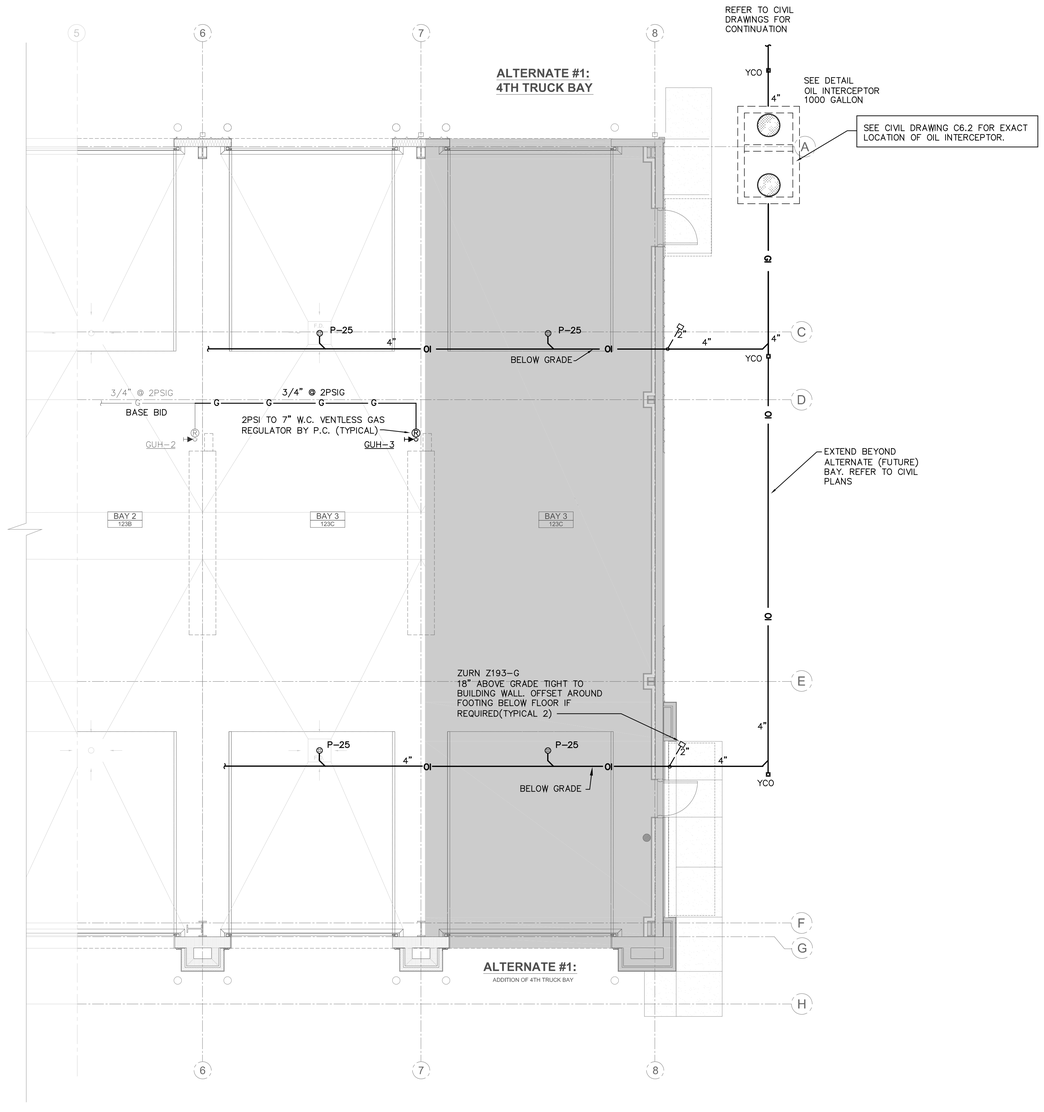
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1 P3.0 **ALTERNATE #1 - 4TH TRUCK BAY**
SCALE: 1/4"=1'-0"

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HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
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HOT WATER CIRCULATING PUMP SCHEDULE

PLAN SYMBOL	GPM	FT. HEAD	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	MOTOR R.P.M.	PUMP MANUF. & CATALOG NO.	REMARKS	NOTES
CP1	5	31	1/6	115	1	3250	TACO 0013-SF2	STAINLESS	(1)(2)

NOTES: 1. SEE WATER HEATER INSTALLATION DETAIL FOR PUMP LOCATION.
2. WIRE PUMP TO BE CONTROLLED WITH 24 HR TIMECLOCK AND AQUASTAT.

SHOCK ARRESTOR SCHEDULE

SYMBOL	PIPE SIZE	FIXTURE RANGE	MODEL NUMBER
"A"	1/2"	1 – 11	#75000–A
"B"	3/4"	12 – 32	#75000–B
"C"	1"	33 – 60	#75000–C
"D"	1–1/4"	61 – 113	#75000–D
"E"	1–1/2"	114 – 154	#75000–E
"F"	2"	155 – 330	#75000–F

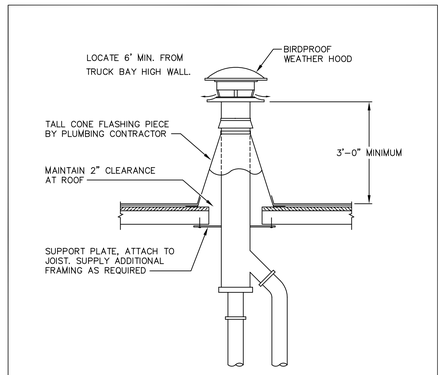
MODEL NUMBERS ARE JOSAM, EQUALS BY ZURN, WADE, OR SMITH.

PLUMBING NOTES

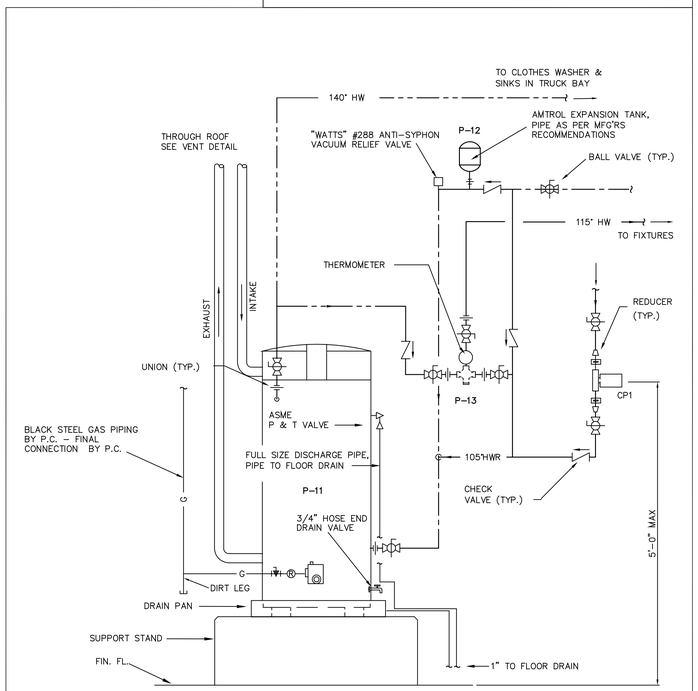
1. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL BUSH ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURERS APPROVED SHOP DRAWINGS. SEE LARGE SCALE TOILET ROOM AND/OR KITCHEN PLANS AND ELEVATIONS. LOCATE ALL COUNTER–TOP FIXTURES FROM ACTUAL DIMENSIONS ON MILLWORK SHOP DRAWINGS.
2. FURNISH CHICAGO 3/4"#387–LS–CP HOSE BIBB WITH NIDEL HD VACUUM BREAKER AT EACH LOCATION SYMBOL "H.B." IS USED. MOUNT 16" AFF.
3. MOUNT EXTERIOR WALL HYDRANT, WOODFORD MODEL #67C, AT 24" ABOVE FINISH GRADE OR SIDEWALK. COORDINATE WITH MASONSTO WORK WITH BRICK/BLOCK COURSING. DO NOT CUT THRU–WALL FLASHING, ANCHOR IN WALL, PROTECT COPPER PIPE FROM DIRECT CONTACT WITH MASONRY OR MORTAR.
4. LOCATE BALL VALVES IN COLD WATER BRANCH LINES ABOVE GYP. BD. CEILING. POSITION VALVE FOR EASY ACCESS, AVOID STRUCTURAL ELEMENTS AND WORK OF MECHANICAL, AND ELECTRICAL TRADES.
5. OFFSET AND COLLECT VENTS ABOVE CEILINGS. LOCATE VENTS THRU ROOF TO AVOID BEAMS, VALLEYS, RIDGE, EDGE OF ROOF, CURBS, CANTS, AND PROVIDE 10' SEPARATION TO ANY AIR INTAKE ON MECHANICAL UNIT OR FAN. COORDINATE WITH HVAC CONTRACTOR, ALSO SEE ARCHITECTURAL ROOF PLAN.
6. ALL VERTICAL PIPING IN NEW LOAD BEARING AND/OR CORRIDOR WALLS SHALL BE OFFSET OUT OF WALL (ABOVE CEILING) TO AVOID STEEL FRAMING MEMBERS OR CHANNELS AT TOP OF WALL, SEE ARCHITECTURAL DETAILS OR SECTION DRAWING. AVOID MECHANICAL & ELECTRICAL EQUIPMENT.
7. PROVIDE FIRE RATED PIPE PENETRATION AROUND ALL PIPES PASSING THRU ANY FIRE RATED WALL OR FLOOR ASSEMBLY. FIRE STOPPING SHALL MATCH HOUR RATING OF THE ASSEMBLY. SEAL TIGHT AROUND ALL METAL PIPE PASSING THRU ONE FACE LAYER OF GYPSUM. APPLY #N/S 25 CAULK AROUND PIPE TO SEAL "SMOKE" TIGHT AND COVER VOIDS OR CRACKS.
8. CONDENSATE DRAIN FOR HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, NOT IN THE PLUMBING CONTRACT WORK.
9. CONTRACTOR SHALL PROVIDE 11/2" P–TRAP TRAP PRIMER (EQUAL TO SMITH #2698–CP) AND CONNECT TO FLOOR DRAIN BELOW SLAB AS NOTED. INSTALL 1/2" K COPPER (SOFT DRAWN) FROM THE WALL TO THE DRAIN, NO JOINTS BELOW SLAB. ISOLATE COPPER BELOW GRADE WITH SLIP ON VINYL JACKET. FLOOR DRAINS INDICATED SHALL HAVE 1/2" PRIMER TAP CONNECTION.
10. CONTRACTOR SHALL INSTALL NEW DOMESTIC WATER LINES, INDICATED ON PLANS TO BE "ABOVE CEILING", SO THAT BRANCH VALVES ARE EASILY ACCESSIBLE THRU THE CEILING. HANG ON THREADED ROD FROM ROOF TRUSS. COORDINATE EXACT LOCATION AND ROUTING WITH LIGHT FIXTURES, CONDUIT LINES, & DUCTWORK.
11. CONTRACTOR SHALL INSTALL NEW DOMESTIC WATER LINE AS INDICATED ON PLANS AND CONNECT TO NEW LINE 5' FROM BUILDING. PROVIDE BALL VALVE IN C.I. BOX. FIELD VERIFY EXACT LOCATION, SIZE, & DEPTH OF LINE. SEE CIVIL DRAWINGS.
12. CONTRACTOR SHALL EXTEND BUILDING DRAIN LINE PIPING FROM BUILDING AND CONNECT TO PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE CIVIL PLANS; FIELD VERIFY EXACT LOCATION, SIZE, AND INVERT OF LINE.

PLUMBING LEGEND

SYMBOL		ABBREVIATIONS	
———	SANITARY SEWER/SOIL	P.C.	PLUMBING CONTRACTOR
— ESS —	EXISTING SANITARY SEWER/SOIL	EL. C.	ELECTRICAL CONTRACTOR
— OI —	OIL INTERCEPTOR WASTE LINE	M.C.	MECHANICAL CONTRACTOR
— – – —	DOMESTIC COLD WATER	G.C.	GENERAL CONTRACTOR
— – – —	DOMESTIC HOT WATER	C.O.	CLEAN OUT
– – – – –	HOT WATER RECIRCULATING LINE	F.C.O.	FLOOR CLEAN OUT
—▽—	BALANCING COCK	W.C.O.	WALL CLEAN OUT
—⫩—	HOSE BIBB OR WALL HYDRANT	Y.C.O.	YARD CLEAN OUT
– – – –	VENT PIPING ABOVE FLOOR	V.T.R.	VENT THRU ROOF
—▶|– –	VALVE IN RISER	C.I.	CAST IRON
—▷|◁—	GATE VALVE	DN.	DOWN
—⊠—	BALL VALVE	F.D.	FLOOR DRAIN
—◿—	CHECK VALVE	WFA	WASTE FROM ABOVE
—⫰—	UNION	WD	WASTE DOWN
— TP —	TRAP PRIMER PIPING	VU	VENT UP
—▼—	GAS COCK	CWU	COLD WATER UP
— G —	NATURAL GAS PIPING	CW DN	COLD WATER DOWN
— LPG —	PROPANE GAS PIPING	HWU	HOT WATER UP
⊠	TIE–IN TO EXISTING MAIN	HW DN	HOT WATER DOWN



GAS VENT TERMINATION DETAIL
NOT TO SCALE



SCHEMATIC PIPING FOR GAS FIRED WATER HEATER
NOT TO SCALE

SCHEDULE OF PLUMBING FIXTURES & SPECIALTY EQUIPMENT

MARK	DESCRIPTION	COMPONENTS TO BE PROVIDED BY PLBG. CONTR.	PROTOTYPE BASIC FIXTURE	PROTOTYPE TRIM & ACCESSORIES	FIXTURE RUNOUT SIZES DRAIN WASTE	VENT	H.W.	C.W.	OTHER	REMARKS
P–1	ADA WATER CLOSET FLOOR MTD. FLUSH TANK VITREOUS CHINA	COMPLETE UNIT WITH ALL TRIM & ACCESSORIES	AMERICAN STANDARD CHAMPION 4, 16–1/8" 1.6 GPF #2002.014 ELONGATED BOWL W/ GLAZED TRAPWAY	PROVIDE MATCHING "CHURCH" OPEN–FRONT SOLID PLASTIC SEAT W/ INTEGRAL BUMPERS & S.S. HINGES, CHROME PLATED WHEEL HANDLE STOP W/ FLEX. SUPPLIES AND BOLT CAPS	3"	2"	——	1/2"		CAULK AT FLOOR W/ WHITE SILICONE SEALANT MOUNT FLUSH HANDLE ON SIDE OF APPROACH
P–2	NOT USED									
P–3										
P–4	LAVATORY COUNTER MOUNTED		INTEGRAL WITH COUNTER	SYMMONS # S–20–0 SINGLE LEVER FAUCET, #155–A GRID DRAIN, #TA–140–CF TRAP, LA–10–CF SUPPLIES, AND TRUEBRO MODEL #102–W INSULATION KIT	2"	2"	1/2"	1/2"	–	PROVIDE G.C. W/ TEMPLATE FOR COUNTER CUT OUT,INSTALL W/ SEALANT UNDER RIM AS PER MFG'S RECOMMENDATIONS.
P–5	ELECTRIC WATER COOLER BARRIER–FREE		OASIS #P8AC 1/5 H.P. @ 115V	BARRIER FREE UNIT W/ STANDARD COLOR PROVIDE 1–1/4" 17 GA. SLIP–JOINT P TRAP WITH C.O., CP CW SUPPLY WITH CUTOFF AND JOSAM #17550–WC FLOOR CARRIER.	2"	2"	–	1/2"	–	CAULK TOP AT WALL W/ WHITE SILICONE SEALANT. MOUNT PER ADA REQMT'S
P–6	S.S. SINK 2–COMPARTMENT UNDERMOUNT		ELKAY "LUSTERTONE" ELUH3220 18 GA. 31–1/4" X 20" X 7–7/8" DEEP	SYMMONS #S–2610 SINGLE LEVER FAUCET, LK–35 STRAINER, #2165–F SUPPLIES, #8912–F TRAP, 2" "ARM" OVER IN CABINET WALL.	2"	2"	1/2"	1/2"	–	PROVIDE G.C. W/ TEMPLATE FOR COUNTER CUT–OUT. INSTALL W/ SEALANT UNDER RIM AS PER MFG. RECOMMEND.
P–7	DISPOSAL		WHIRLAWAY MODEL #291PC 1/2 HP 120V.	PROVIDE WITH "P–TRAP" AND WIRING WITH PLUG. P.C. SHALL MAKE ALL FINAL PLB'G. CONNECTIONS.	1 1/2	–	–	–	–	VERIFY ALL ROUGHING REQUIREMENTS W/ MANUFACTURER
P–8	DISHWASHER		FURNISHED BY OTHERS. CONNECTED BY P.C.	PROVIDE HI–TEMP SUPPLY & DRAIN HOSES, CUT OFF VALVE. PROVIDE W/ INDIRECT CONNECTION. P.C. SHALL MAKE ALL FINAL PLB'G. CONNECTIONS.	–	–	–	–	–	VERIFY ALL ROUGHING REQUIREMENTS W/ MF'R. AND ARCHITECT.
P–9	SHOWER UNIT (HANDICAPPED)		SHOWER BASIN & SURROUNDS BY G.C.	PROVIDE WITH 2" SHOWER DRAIN WITH C.P. STRAINER, SYMMONS #9605–PLR–231–X–CHKS–B30–L PRESSURE BAL. VALVE W/INTEGRAL STOPS, HAND HELD SHR W/60" HOSE, VAC.BKR., 30" SLIDE BAR	2"	2"	1/2"	1/2"	–	UNIT SHALL BE PIPED TO COMPLY WITH ADA REQUIREMENTS.
P–10	SHOWER UNIT		SHOWER BASIN & SURROUNDS BY G.C.	PROVIDE WITH 2" SHOWER DRAIN WITH C.P. STRAINER, SYMMONS #1–100–X–CHKS PRESSURE BAL. VALVE W/ INTEGRAL SCREWDRIVER STOPS, #4–231 HEAD W/ 2.5 GPM FLOW RESTRICTOR	2"	2"	1/2"	1/2"	–	
P–11	L.P. GAS WATER HEATER (119 GAL. CAPACITY)		A.O. SMITH #BTH–400–ASME 399,900 BTU INPUT	"CYCLONE MXI" 95 EFFICIENCY, L.P. GAS 460 GALLONS PER HOUR RECOVERY @ 100 RISE RELIEF VALVE AND 4" PVC VENTS. PROVIDE WITH CONDENSATE NEUTRALIZER	–	–	1 1/4"	1 1/4"	FULL SIZE DISCH. LINE	PROVIDE 18" STEEL STAND SET T'STAT FOR 140° F WORKING TEMPERATURE.
P–12	EXPANSION TANK		AMTROL #ST–12–C EXPANSION TANK	INSTALL PER MFR'S INSTRUCTIONS	–	–	–	3/4"	–	VERIFY EXACT MOUNTING LOCATION AT SITE MOUNT ON WALL BRACKET. SEE DETAIL
P–13	MIXING VALVE		"SYMMONS" #7–500A–W–NI	PROVIDE THERMOMETER, BALL VALVES, UNIONS, WALL BRACKET, ETC	–	–	1"	1"	1 1/4"	PROVIDE RIGID SUPPORT FROM PIPING.
P–14	WASHER BOX		PROSET FIRE GUARD WASHER BOX	FIRE–RATED PLASTIC HOUSING AND FRAME W/ INTUMESCENT PAD, HOT AND COLD WATER SHUT–OFF VALVES AND 2" PVC DRAIN	2"	2"	1/2"	1/2"	–	MOUNT BOTTOM OF UNIT 42" A.F.F.
P–15	S.S. WORK TABLE W/ SINK		ADVANCE TABCO #FS–1–2424–24RL WITH 24"x24"x20" DEEP SINK, 2 DRAINBOARDS	PROVIDE W/T&S #B–0133–B PRERINSE FAUCET, K–5 LEVER OPERATED DRAIN, K–4 SUPPORT BRACKET, FLEX. SUPPLIES W/WHEEL HANDLE STOPS, ADJUST. P–TRAP (1 1/2"X1 1/2"), ESCUTCHEON & 14 GA. STAINLESS STEEL SHELF	2"		1/2"	1/2"	–	
P–16	HOSE BIBB (INTERIOR)		WOODFORD MODEL 24P WALL FAUCET W/ VAC. BREAKER	LOOSE KEY OPERATOR, 3/4" HOSE THREAD, CHROME FINISH.	–	–	–	3/4"	–	MOUNT ON WALL 16" A.F.F.
P–17	WALL HYDRANT		WOODFORD 65C AUTO DRAINING, FREEZELESS WALL HYDRANT W/ VAC. BREAKER	LOOSE KEY OPERATOR, 3/4" HOSE THREAD, CHROME FINISH.	–	–	–	3/4"	–	MOUNT IN EXTERIOR WALL 18" ABOVE FIN. GRADE
P–18	ICEMAKER BOX		OATLEY MODEL 39152	POLYETHYLENE HOUSING AND FRAME W/ 1/2" BRASS VALVE AND HAMMER ARRESTOR	–	–	–	1/2"	–	MOUNT IN WALL 36" ABOVE FIN. FLOOR
P–19	EMERGENCY EYEWASH		BRADLEY MODEL S19–220SS WALL MTD. EYEWASH	10"ø STAINLESS STEEL BOWL W/ (2) OUTLET HEADS, FACE SPRAY RING, BALL VALVE, VANDAL RESISTANT TRIM & HINGED COVERS FOR OUTLETS	2"	1 1/4"	—	1/2"		VERIFY EXACT MOUNTING LOCATION W/ ARCH.
P–20	MIXING VALVE		BRADLEY NAVIGATOR S19–2000 EFX8	PROVIDE THERMOMETERS, GLOBE VALVES, UNIONS, ETC	—	—	1/2"	1/2"		PROVIDE RIGID SUPPORT FROM WALL.
P–21	WASHER/ EXTRACTOR		FURNISHED BY OWNER	WASHER/EXTRACTOR FURNISHED AND INSTALLED BY OTHERS. FINAL PLUMBING CONNECTIONS BY P.C.	4"	—	3/4" 3/4"	—	—	VERIFY ALL ROUGH–IN REQUIREMENTS W/ EQUIP. SUPPLIER
P–22	FLOOR DRAIN		ZURN #ZN415S–VP W/5" SQUARE "S" STRAINER	FLOOR DRAIN WITH NICKEL BRONZE & VANDAL PROOF TOP	3"	—	—	—		PROVIDE PROSET "TRAPGUARD" IN DRAIN
P–23	FLOOR DRAIN		ZURN #ZB415E W/7" TYPE "E" STRAINER	FLOOR DRAIN WITH 4" ø FUNNEL & BRONZE TOP	3"	—	—	—		PROVIDE PROSET "TRAPGUARD" IN DRAIN
P–24	FLOOR DRAIN		ZURN #ZB415S–Y–V W/5" SQUARE "S" STRAINER	FLOOR DRAIN WITH POLISHED BRONZE TOP, BACKWATER VALVE & SEDIMENT BUCKET	3"	—	—	—		PROVIDE PROSET "TRAPGUARD" IN DRAIN
P–25	FLOOR DRAIN		ZURN #Z675 & ZURN #Z1099	12" SQ. EXTRA HEAVY DUTY FLOOR DRAIN WITH SEDIMENT BUCKET & BACKWATER VALVE	4"	—	—	—		
P–26	WATER CLOSET FLOOR MTD. FLUSH TANK VITREOUS CHINA		AMERICAN STANDARD CADET PRO 15" EL 1.2 215CA.104 ELONGATED BOWL W/ SIPHON VORTEX ACTION	PROVIDE MATCHING "CHURCH" OPEN–FRONT SOLID PLASTIC SEAT W/ INTEGRAL BUMPERS & S.S. HINGES, CHROME PLATED WHEEL HANDLE STOP W/ FLEX. SUPPLIES AND BOLT CAPS	3"	2"	——	1/2"		CAULK AT FLOOR /W WHITE SILICONE SEALANT
P–27	LAVATORY WALL HUNG VITREOUS CHINA		AMERICAN STANDARD "LUCERNE" 0355.012 20.5"x18.25" W/4" CENTERS ZURN FL. MTD. CARRIER	SYMMONS "SYMMETRIX" S–20–2–G SINGLE LEVER FAUCET W/ GRID DRAIN, FLEX. C.P. SUPPLIES W/WHEEL HANDLE, ADJ. C.P., 17 GA. P–TRAP	2"	1 1/2"	1/2"	1/2"		CAULK AT WALL W/ WHITE SILICONE SEALANT. MOUNT FIXTURE AT STD. HEIGHT
P–28	ICEMAKER		FURNISHED BY OTHERS. CONNECTED BY P.C.	ALL WIRING WILL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE W/ INDIRECT CONNECTION. P.C. SHALL MAKE ALL FINAL PLB'G. CONNECTIONS	–	–	–	1/2"	–	VERIFY ALL ROUGHING REQUIREMENTS W/ MF'R. AND ARCHITECT.

NOTE TO BIDDERS/CONTRACTOR:
THE DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DRAWING. SOME TURNS, ELEVATION CHANGES, FITTINGS, ETC. WILL HAVE TO BE FABRICATED, CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. MECHANICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DRAWINGS FOR COORDINATION PRIOR TO SUBMITTING A BID.

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SOUTH CAROLINA — RAST DALLERY ENGINEERS, PC — No. 3251 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 17473 — 9/13/24 — RICHARD A. DALLERY

OWNER
HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

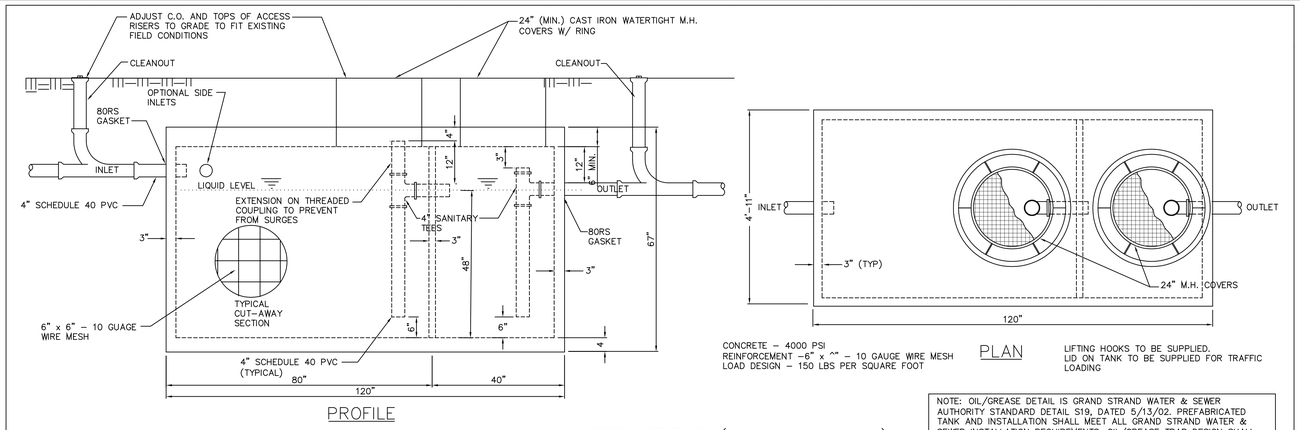
SHEET TITLE
SCHEDULES, NOTES LEGEND & DETAILS

SHEET NO.
P4.0

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JOB NO: 24029

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PROFILE

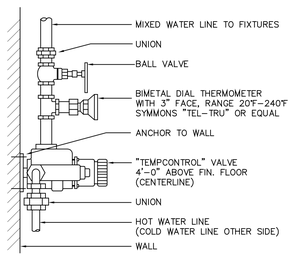
PLAN

CONCRETE - 4000 PSI
REINFORCEMENT -6" x ^" - 10 GAUGE WIRE MESH
LOAD DESIGN - 150 LBS PER SQUARE FOOT

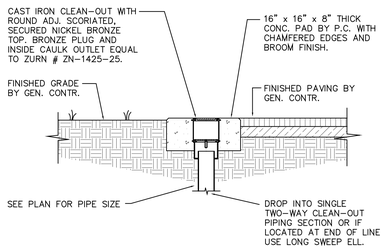
LIFTING HOOKS TO BE SUPPLIED.
LID ON TANK TO BE SUPPLIED FOR TRAFFIC LOADING

NOTE: OIL/GREASE DETAIL IS GRAND STRAND WATER & SEWER AUTHORITY STANDARD DETAIL S19, DATED 5/13/02. PREFABRICATED TANK AND INSTALLATION SHALL MEET ALL GRAND STRAND WATER & SEWER INSTALLATION REQUIREMENTS. OIL/GREASE TRAP DESIGN SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER/SUPPLIER. REFER TO/COORDINATE WITH CIVIL DRAWINGS.

OIL INTERCEPTOR (1000 GAL CAP)
NO SCALE

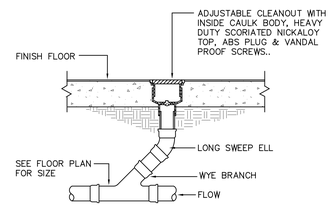


TEMPERATURE CONTROL VALVE
NOT TO SCALE



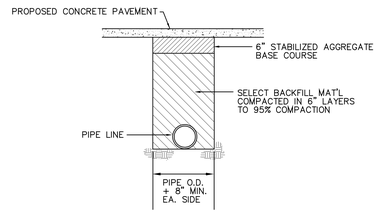
YARD CLEAN-OUT - HEAVY-DUTY
NOT TO SCALE

NOTE : OMIT CONC. PAD IF C.O. IS SET IN CONCRETE SURFACE PROVIDED BY GEN. CONTR.

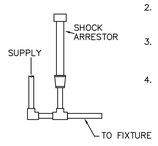


CLEANOUT AT FINISH FLOOR DETAIL
NOT TO SCALE

NOTE : OMIT CONC. PAD IF C.O. IS SET IN CONCRETE SURFACE PROVIDED BY GEN. CONTR.

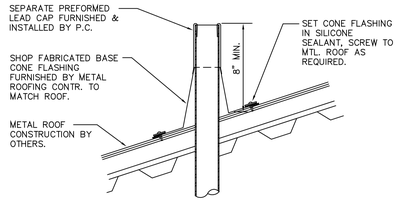


BACKFILL UNDER CONCRETE PAVEMENT
NOT TO SCALE

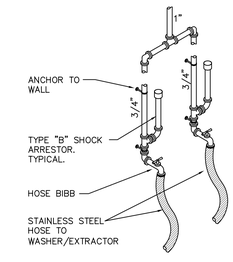


1. PROVIDE "A" SIZE WATER HAMMER ARRESTOR ON HOT & COLD WATER SUPPLIES TO ALL FIXTURES WITHIN A 20'-0" LINEAL PIPE LENGTH/ END OF LINE AND PER PDI-WH 201 STANDARD. CONFORM TO ASSE 1010.
2. UNITS SHALL BE STAINLESS STEEL HAMMER ARRESTOR SHALL EQUAL TO JOSAM #75000 SERIES.
3. OFFSET TO AVOID OBSTRUCTIONS WHERE NECESSARY.
4. PROVIDE WATER HAMMER ARRESTOR ON WATER HOT & COLD WATER SUPPLIES TO "QUICK CLOSING" FIXTURES.

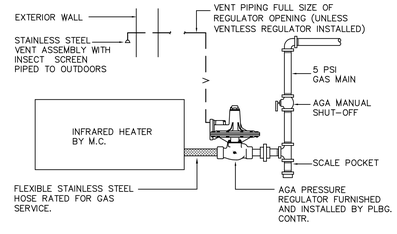
SHOCK ARRESTOR
NOT TO SCALE



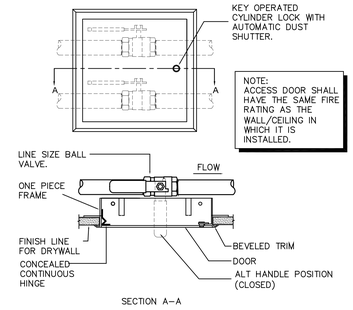
VENT TERMINATION DETAIL
NOT TO SCALE



SCHEMATIC PIPING FOR WASHER/EXTRACTOR
NOT TO SCALE
(TYPICAL FOR HOT & COLD WATER CONNECTIONS)

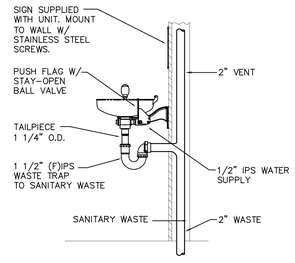


TYPICAL PIPING DETAIL FOR GAS FIRED HEATERS
N.T.S.



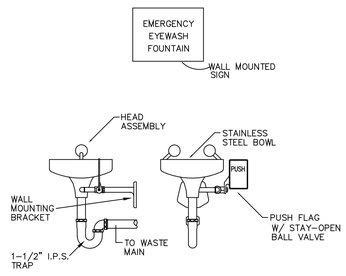
SECTION A-A

VALVE ACCESS DOOR
NOT TO SCALE

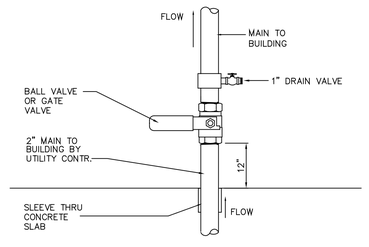


EYEWASH NOZZLES TO BE 34" A.F.F. FOR ADULTS
(32" A.F.F. FOR CHILDREN)

EMERGENCY EYEWASH MOUNTING DETAIL
NOT TO SCALE



EMERGENCY EYEWASH DETAIL
NOT TO SCALE



WATER SERVICE ENTRANCE DETAIL
NOT TO SCALE

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No. 17473
9/13/24
ROBERT M. DALLERY

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

SHEET TITLE
DETAILS

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JOB NO: 24029

SHEET NO.
P4.1

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VEHICLE EXHAUST SYSTEM:

PROVIDE MAGNAGRIP VEHICLE EXHAUST SYSTEMS AS SHOWN. PROVIDE ALL DUCTWORK, EQUIPMENT AND MATERIALS WHICH IS USUALLY FURNISHED WITH SUCH SYSTEMS IN ORDER TO COMPLETE THE INSTALLATION, WHETHER SPECIFICALLY MENTIONED OR NOT.

EXHAUST SYSTEM SHALL INCLUDE THE FOLLOWING:
- Rails
- Mounting Leg Assemblies
- Inlet Plenums
- Crab Assemblies
- Lifting Balancers
- Hoses and Connectors
- Transmitters
- Receivers
- Fan
- Control Panel
- Ductwork

MANUFACTURER/SUPPLIER SHALL PROVIDE SYSTEM DESIGN DRAWINGS TO SCALE SPECIFYING THE SYSTEM LAYOUT, MATERIALS, HANGERS/SUPPORT SYSTEM ETC. FOR A COMPLETE SYSTEM WITH INSTALLATION DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE BUILDING STRUCTURAL BRACING AND SUPPORTS AS REQUIRED FOR INSTALLATION OF EACH VEHICLE EXHAUST SYSTEM.

GENERAL NOTES:

1. REFER TO SHEET M3.0 FOR SCHEDULES, LEGEND, NOTES, AND DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED WALLS/CEILINGS/ASSEMBLIES AND SMOKE BARRIERS. FIRE/SMOKE/RADIATION DAMPERS WILL BE REQUIRED, AS APPLICABLE, PER THE SOUTH CAROLINA BUILDING CODE AND SOUTH CAROLINA MECHANICAL CODE.
3. INSTALLATION OF ALL HVAC EQUIPMENT, PIPING, AND DUCTWORK (MAIN TRUNK AND BRANCH LINES) IN SPACE BETWEEN/THROUGH JOIST/TRUSSES SHALL BE COORDINATED WITH JOIST/TRUSS DESIGN. WHERE JOIST/TRUSS BLOCK-OUTS ARE REQUIRED FOR DUCT TO BE ROUTED; COORDINATE DURING THE SHOP DRAWING/SUBMITTAL PROCESS.

KEYED NOTES (THIS SHEET):

1. PROVIDE AN ACTUATED DAMPER IN THE OUTSIDE AIR DUCT. DAMPER TO OPEN UPON START OF THE COMPRESSOR AND FULLY CLOSE WHEN THE COMPRESSOR SHUTS DOWN. MECHANICAL STOP SHALL BE USED TO ADJUST THE OPEN POSITION, BALANCE TO THE CFM SCHEDULED. PROVIDE BLADE JAMB SEAL FOR DAMPER.

   ALTERNATE APPROACH IS TO USE AN ACTUATED OPEN/CLOSE DAMPER WITH A MANUAL BALANCING DAMPER FOR BALANCING. CONSTRUCTION AND OPERATION AS SPECIFIED HEREIN.
2. ADJUST COIL ORIENTATION FOR MAINTENANCE ACCESS.
3. KITCHEN HOOD AND EXHAUST FAN PROVIDED BY G.C. DUCTWORK SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. VERIFY HOOD REQUIREMENTS AND CONNECT DUCT TO HOOD.
4. DEHUMIDIFIER: APRILAIRE MODEL E100 WITH DISCHARGE DUCT COLLAR. INSTALL AIR HANDLER DETAIL INCLUDING THE WOOD BASE, DRIP PAN, DRIP PAN DRAIN, DRIP PAN SWITCH, TREATED WOOD BLOCKS, AND NEOPRENE ISOLATION PADS.

4"ø DRYER EXHAUST DUCT. ROUTE DUCT ABOVE CEILING. TERMINATE AT "DEFLECT-O" DAHC4 ALUMINUM WALL CAP WITH BACKDRAFT DAMPER. CONNECTION TO DRYER BY OWNER.

12"ø DRYER EXHAUST DUCT WITH MINIMUM THICKNESS OF 26-GUAGE. TERMINATE AT CODE COMPLIANT ALUMINUM WALL CAP WITH BACKDRAFT DAMPER. CONNECTION TO DRYER BY OWNER. COORDINATE SIZE WITH OWNER.

COORDINATE WALL PENETRATION WITH ARCHITECTURAL AND STRUCTURAL PORTAL FRAME. COORDINATE DURING STRUCTURAL SHOP DRAWING PHASE. (TYPICAL)

HONEYWELL VULCAIN E3SASCO 120V CONTROLLER AND E3SRMSCO CO SENSORS AND E3SRMNO2 NO2 SENSORS. COORDINATE WITH ELECTRICAL CONTRACTOR WHO PROVIDES CONNECTIONS FOR CONTROLLER OUTPUT SIGNALS AND FAN POWER. CONTROLLER SHALL SIGNAL VF-1 AND LOUVER DAMPERS TO ENERGIZE WHEN 25 PPM CO AND/OR 1 PPM NO2 LEVEL IS DETECTED. ALARM SHALL SOUND WHEN CO LEVEL EXCEEDS 100 PPM AND/OR NO2 EXCEEDS 5 PPM FOR 15 MINUTES. LOCATE DETECTORS PER MANUFACTURER'S RECOMMENDATION AND A MINIMUM OF 6'-0" ABOVE FINISHED FLOOR.

12"x18" ALUMINUM LOUVER POTTORFF MODEL ECD-635 OR EQUAL WITH ALUMINUM BIRDSCREEN. INSTALL BOTTOM OF LOUVER 9'-6" AFF. ARCHITECT TO SELECT/APPROVE COLOR.

LOUVERED DOOR ARCHITECT TO SPECIFY

BOTTOM OF VENTS MINIMUM 14" AFF.

SIDEWALL FLUE VENT CAP (TYPICAL)

CONCRETE HOUSEKEEPING PAD BY G.C

12" VENT TO EQUIPMENT DRYER INSTALL HIGH AS POSSIBLE

ROUTE GAS HEATER EXHAUST TO EXTERIOR. INSTALL PER MANUFACTURERS RECOMMENDATIONS (TYPICAL)

MAGNEGRIP RAIL (TYPICAL)

MAGNEGRIP PLENUM (TYPICAL)

MOUNT UNIT HEATER BELOW VEHICLE EXHAUST DUCT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCE FROM COMBUSTIBLES. CONTACT MR. RON HAMRICK, PHONE 704-502-2743 OR ORDERING, QUESTIONS, AND ASSISTANCE WITH THE SPACE-RAY HEATER.

OPEN END DUCT AT 8' AFF.

DRYER EXHAUST FAN DEF-1

CEILING HATCH TO MECHANICAL PLATFORM. REFER TO ARCHITECTURAL DRAWINGS.

CEILING HATCH TO MECH PLATFORM. REFER TO ARCHITECTURAL DRAWINGS.

ROUTE BELOW PLATFORM COORDINATE WITH GC

ALUMINUM WALL CAP WITH DAMPER

ALUMINUM WALL CAP WITH BIRD SCREEN AND DAMPER (TYPICAL)

DEHUMIDIFIER

OPEN ENDED DUCT

COORDINATE WITH CONDUITS & E.C. (TYPICAL)

DRYER BOX

DRYER BOOSTER FAN NOTIFICATION PANEL

TG1 (OVER DOOR)

DUCT HIGH AS POSSIBLE 1" BELOW STRUCTURE

INTERLOCK HEATERS WITH BAY DOORS TO TURN OFF HEATERS WHEN DOORS ARE OPEN LONGER THAN 2 MINUTES. COORDINATE WITH E.C. (TYPICAL)

MAGNEGRIP FAN

MAGNEGRIP STACK TERMINAL

ALTERNATE ONE:
4TH TRUCK BAY

MOTORIZED ADJUSTABLE LOUVER: POTTORFF EXD-645 OR EQUAL. 72"Wx60"H. MOUNT BOTTOM 4' AFF. PROVIDE BIRD SCREEN. LOUVER TO OPEN UPON ACTIVATION OF VENTILATION FAN VF-1.

VEHICLE EXHAUST SYSTEM CONTROL PANELS. VERIFY FINAL LOCATION WITH OWNER

MAGNEGRIP RAIL (TYPICAL)

PROVIDE WIRE GUARD FOR THERMOSTATS AND SENSORS IN TRUCK BAYS. (TYPICAL)

MOUNT EXHAUST SYSTEM RECIEVER 10'-0" ABOVE FINISH FLOOR ON COLUMN (TYPICAL)

SPLASH BLOCK

PIPE THROUGH WALL ABOVE CEILING (TYPICAL x3)

ELBOW DOWN TO DRIP ONTO GRADE IN CONSCIPUOUS VIEW (TYPICAL x3)

CEILING HATCH TO MECHANICAL PLATFORM. REFER TO ARCHITECTURAL DRAWINGS.

COORDINATE GRILLE'S FRAME INSTALLATION WITH WALL. INSTALL GRILLE'S FRAME WITH BACKING STUDS TO ALLOW FOR GRILLE'S EXPOSED FASTENERS TO BE REMOVED AND REINSTALLED WHEN SERVICING THE FIRE DAMPER.

REMOTE TEMPERATURE SENSOR. PROVIDE CONTROL AT UNIT. TYPICAL FOR ALL UNIT HEATERS.

MECHANICAL PLATFORM BY G.C. REFER TO ARCHITECTURAL DRAWINGS. (TYPICAL x4)

PLAN NORTH / TRUE NORTH

1 M1.0 **FLOOR PLAN**
SCALE: 3/16"=1'-0"

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FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER **24002**

DRAWN: CHECKED:

DATE: 8-28-24

SHEET TITLE **FLOOR PLAN**

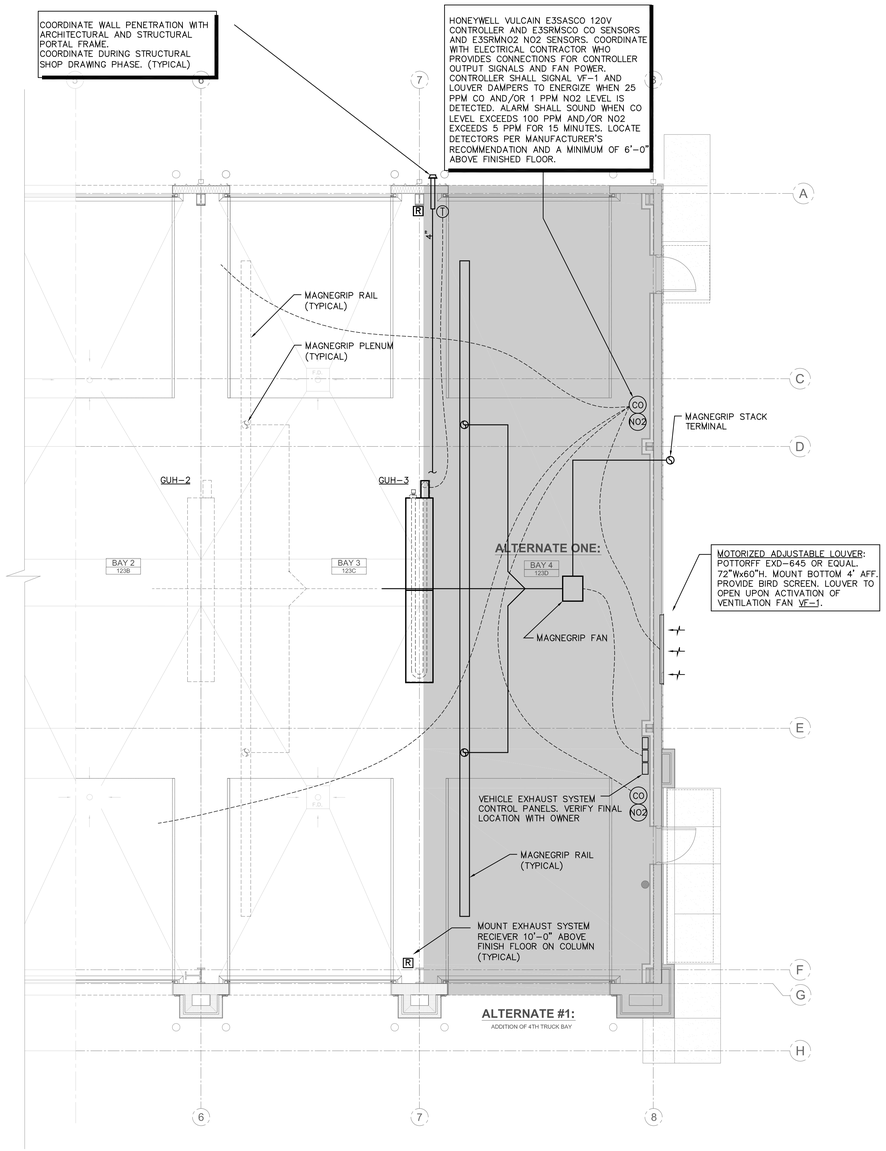
SHEET NO. **M1.0**

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MYRTLE BEACH, SC 29577
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JOB NO: 24029

ALTERNATE ONE:

1. ADD ALTERNATE NUMBER ONE
CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE FOURTH TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.



1 M2.0 ALTERNATE #1 - 4TH TRUCK BAY
SCALE: 1/4"=1'-0"

VEHICLE EXHAUST SYSTEM:

PROVIDE MAGNAGRIP VEHICLE EXHAUST SYSTEMS AS SHOWN.
PROVIDE ALL DUCTWORK, EQUIPMENT AND MATERIALS WHICH IS USUALLY FURNISHED WITH SUCH SYSTEMS IN ORDER TO COMPLETE THE INSTALLATION, WHETHER SPECIFICALLY MENTIONED OR NOT.

EXHAUST SYSTEM SHALL INCLUDE THE FOLLOWING:
- Rails
- Mounting Leg Assemblies
- Inlet Plenums
- Crab Assemblies
- Lifting Balancers
- Hoses and Connectors
- Transmitters
- Receivers
- Fan
- Control Panel
- Ductwork

MANUFACTURER/SUPPLIER SHALL PROVIDE SYSTEM DESIGN DRAWINGS TO SCALE SPECIFYING THE SYSTEM LAYOUT, MATERIALS, HANGERS/SUPPORT SYSTEM ETC. FOR A COMPLETE SYSTEM WITH INSTALLATION DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE BUILDING STRUCTURAL BRACING AND SUPPORTS AS REQUIRED FOR INSTALLATION OF EACH VEHICLE EXHAUST SYSTEM.

GENERAL NOTES:

1. REFER TO SHEET M3.0 FOR SCHEDULES, LEGEND, NOTES, AND DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED WALLS/CEILINGS/ASSEMBLIES AND SMOKE BARRIERS. FIRE/SMOKE/RADIATION DAMPERS WILL BE REQUIRED, AS APPLICABLE, PER THE SOUTH CAROLINA BUILDING CODE AND SOUTH CAROLINA MECHANICAL CODE.
3. INSTALLATION OF ALL HVAC EQUIPMENT, PIPING, AND DUCTWORK (MAIN TRUNK AND BRANCH LINES) IN SPACE BETWEEN/THROUGH JOIST/TRUSSES SHALL BE COORDINATED WITH JOIST/TRUSS DESIGN. WHERE JOIST/TRUSS BLOCK-OUTS ARE REQUIRED FOR DUCT TO BE ROUTED; COORDINATE DURING THE SHOP DRAWING/SUBMITTAL PROCESS.

KEYED NOTES (THIS SHEET):

1. PROVIDE AN ACTUATED DAMPER IN THE OUTSIDE AIR DUCT. DAMPER TO OPEN UPON START OF THE COMPRESSOR AND FULLY CLOSE WHEN THE COMPRESSOR SHUTS DOWN. MECHANICAL STOP SHALL BE USED TO ADJUST THE OPEN POSITION, BALANCE TO THE CFM SCHEDULED. PROVIDE BLADE JAMB SEAL FOR DAMPER.

   ALTERNATE APPROACH IS TO USE AN ACTUATED OPEN/CLOSE DAMPER WITH A MANUAL BALANCING DAMPER FOR BALANCING. CONSTRUCTION AND OPERATION AS SPECIFIED HEREIN.
2. ADJUST COIL ORIENTATION FOR MAINTENANCE ACCESS.
3. KITCHEN HOOD AND EXHAUST FAN PROVIDED BY G.C. DUCTWORK SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. VERIFY HOOD REQUIREMENTS AND CONNECT DUCT TO HOOD.

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SOUTH CAROLINA RAST DALLERY ENGINEERS, PC No. 3251 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17473 9/13/24 RICHARD A. DALLERY

OWNER

HORRY COUNTY THE INDEPENDENT REPUBLIC S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

SHEET TITLE
ALTERNATE #1 FLOOR PLAN

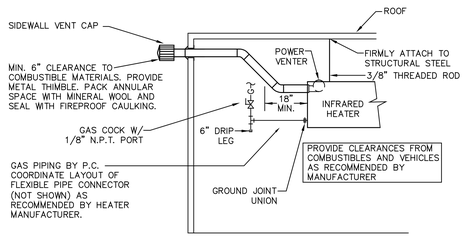
SHEET NO.
M2.0

RAST DALLERY ENGINEERS, PC
514 ALDER STREET, SUITE 4
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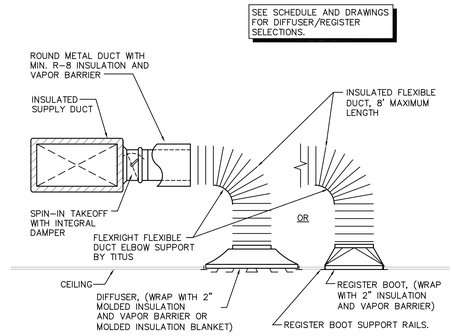
JOB NO: 24029

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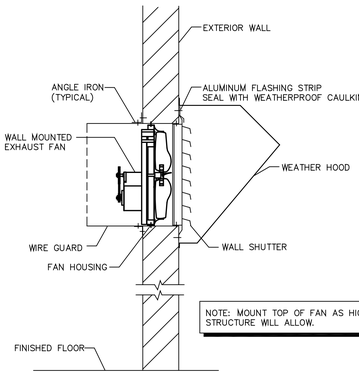
CLEARANCE REQUIREMENTS FOR VENT TERMINAL SHALL BE A MINIMUM 36" ABOVE ANY FORCED AIR INTAKES OR CONDENSING UNITS WITHIN 10 FEET, A MINIMUM OF 14" FROM OBSTRUCTIONS, A MINIMUM OF 36" FROM CORNERS, A MINIMUM OF 12" AWAY FROM DOORS OR WINDOWS, WITH BOTTOM A MINIMUM OF 12" ABOVE GRADE. THE EXHAUST SHALL NOT BE LOCATED WITH IN 24 INCHES OF SURFACES WHERE WETTING BY CONDENSATE, OR WATER VAPOR, COULD CREATE A NUISANCE OR HAZARD. CONTRACTOR SHALL USE 24 GA. SINGLE WALL GALVANIZED STEEL FLUE DUCT. SIZE PER HEATER MANUFACTURER'S RECOMMENDATION. PER IFGC SECTION 502.4 WHERE VENTS PASS THROUGH INSULATED ASSEMBLIES, AN INSULATION SHIELD CONSTRUCTED OF 26 GA STEEL SHALL BE INSTALLED TO PROVIDE CLEARANCE BETWEEN VENT AND INSULATION MATERIAL.



TYPICAL UNIT HEATER WITH POWER VENTILATOR
NOT TO SCALE



BRANCH DUCT DETAIL (TYPICAL)
NOT TO SCALE



TYPICAL SERVICE AREA EXHAUST FAN
NOT TO SCALE

HEAT PUMP SCHEDULE

MARK	NOMINAL TONS	COOLING CAP. (MBH) TOTAL	COOLING CAP. (MBH) SENSIBLE	SEER	HEATING CAPACITY (MBH @ 17° F)	HSPF	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
HP-1	1.5	18.7	12.7	14.6	14.6	7.8	230/1	TRANE 4TWR4018	1,2,3,4,5,6,8
HP-2	5.0	55.7	40.0	15.6	36.7	7.8	230/1	TRANE 4TWR6060	1,2,3,4,5,6,8,9
HP-3	3.0	37.0	27.7	16.0	21.9	7.8	230/1	TRANE 4TWR6036	1,2,3,4,5,6,8,9

ACCESSORIES:
1. CRANKCASE HEATER
2. HARD START DEVICE
3. LIQUID LINE SOLENOID
4. DISCONNECT SWITCH
5. LOW AMBIENT CONTROL TO 30°F
6. ANTI-SHORT CYCLE TIMER
7. ENERGY GUARD SEACOAST COATING OR EQUAL; ENTIRE UNIT SHALL BE COATED.
8. HAIL/VANDAL GUARD
9. TWO STAGE COMPRESSORS
10. LONG LINE SET
11. VARIABLE SPEED COMPRESSOR
12. 5-MIN. ANTI-CYCLE TIMER.
13. ELECTRONIC THERMOSTAT WITH AUXILIARY HEATER LOCKOUT.
14. ANTI-VIBRATION ISOLATION RUBBER MOUNTING PAD. 800 LB MINIMUM CAPACITY, APPROXIMATELY 2" THICK

AIR HANDLER SCHEDULE

MARK	CFM	O.A CFM	EXT. S.P. (IN.)	SUPP. ELECTRIC HEAT (KW@240V)	FAN HP	SPEED SETTING	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
AH-1	600	60	0.5	3.84	1/3	NORMAL	230/1	TRANE TEM6A0B24	1,2,3,5,8,9
AH-2	2000	200	0.5	7.2	3/4	NORMAL	230/1	TRANE TEM6B0C60	1,2,3,5,8,9
AH-3	1200	120	0.5	5.76	1/2	NORMAL	230/1	TRANE TEM6A0C36	1,2,3,5,8,9

ACCESSORIES:
1. AUTO CHANGEOVER DIGITIAL TEMPERATURE AND HUMIDITY CONTROLLER (THERMOSTAT)
2. DISCONNECT SWITCH
3. INTEGRAL FILTER FRAME
4. CONDENSATE PUMP
5. SINGLE POINT CONNTECTION
6. UV-C GERMICIDAL LAMPS
7. EMB-1 ECONOMIZER WITH ENTHALPY CONTROL AND BAROMETRIC RELIEF.
8. VARIABLE SPEED MOTOR
9. ADJUST COIL ORIENTATION FOR MAINTENECE ACCESS

FAN SCHEDULE

MARK	MAKE/MODEL	DESCRIPTION	TYPE	CFM	RPM	ESP	SONES	HP (WATTS)	VOLTS/PH.	ACCESSORIES
EF-1	TWIN CITY T081	CEILING MOUNTED CENTRIFUGAL	EXHAUST	50	840	0.25	2.5	(27)	115/1	1,2,3,4,5,8
EF-2	TWIN CITY T100	CEILING MOUNTED CENTRIFUGAL	EXHAUST	75	562	0.25	1.1	1/8	115/1	1,2,3,4,5,8
EF-3	TWIN CITY T100	CEILING MOUNTED CENTRIFUGAL	EXHAUST	75	562	0.25	1.1	1/8	115/1	1,2,3,4,5,8
EF-4	TWIN CITY T100	CEILING MOUNTED CENTRIFUGAL	EXHAUST	75	562	0.25	1.1	1/8	115/1	1,2,3,4,5,8
EF-5	TWIN CITY T700	CEILING MOUNTED CENTRIFUGAL	EXHAUST	660	960	0.25	4.8	(313)	115/1	1,2,3,4,5,8,23
VF-1	TWIN CITY WPB36Z5	WALL MOUNTED PROPELLER	EXHAUST	11,250	592	0.175	17.0	1	230/1	1,2,14,15,18,19
DEF-1	TJERNLUND LB2	DRYER BOOSTER FAN	EXHAUST	160	--	--	--	(96)	115/1	26

ACCESSORIES:
1. BACKDRAFT DAMPER
2. DISCONNECT SWITCH
3. DELUXE ALUMINUM GRILLE
4. FAN SPEED CONTROLLER
5. HANGING ISOLATOR KIT
6. RADIATION DAMPER
7. BELT TENSIONER
8. ALUMINUM WALL/ROOF CAP WITH BACKDRAFT DAMPER
9. HINGED BASE OR HINGED BASE KIT
10. VARIABLE SPEED WALL CONTROLLER
11. TWO (2) GUY WIRE SAFETY CABLE
12. MOUNTING BRACKET AND EXTENSION TUBE
13. INSECT SCREEN - ALUMINUM
14. BIRDSCREEN - ALUMINUM
15. WALL COLLAR
16. OSHA MOTOR GUARD
17. LOCKABLE DISCONNECT SWITCH
18. WEATHER HOOD
19. WALL COLLAR, SHUTTER, WIRE GUARD
20. ROOF CURB
21. THERMOSTAT CONTROL
22. TIMER CONTROL
23. REMOTE LINE VOLTAGE. THERMOSTAT
24. TIE DOWN BRACKETS
25. RETAINING CHAIN
26. REMOTE MOUNTED NOTIFICATION PANEL

MINI SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK	EQPT. SERVED	NOMINAL TONS	COOLING CAP. (MBH)	HEATING CAPACITY (MBH AT 17°F)	SEER	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
MSHP-1	MSAH-1	1.0	12.0	8.9	22.0	230/1	TRANE NTXSKS12A112A	3

ACCESSORIES:
1. LOW AMBIENT CONTROL
2. HARD START
3. DISCONNECT SWITCH
4. ENERGY GUARD SEACOAST COATING OR EQUAL; ENTIRE UNIT SHALL BE COATED.
5. HAIL/VANDAL GUARD
6. --

MINI-SPLIT AIR HANDLER SCHEDULE

MARK	CFM	O.A. CFM	EXT. S.P. (IN.)	SUPP. ELECTRIC HEAT (KW@240V)	HSPF	FAN AMP	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
MSAH-1	260	--	--	--	11.4	1.0	230/1	TRANE NTXCKS12A112A	2

ACCESSORIES:
1. TEMPERATURE CONTROLLER
2. WALL MOUNT THERMOSTAT
3. DISCONNECT SWITCH
4. FILTER BOX WITH FILTERS
5. FILTER BOX ACCESSORY
6. REMOTE CONTROLLER
7. MOTORIZED DAMPER FOR OUTSIDE AIR
8. CONDENSATE PUMP
9. DRAIN PAN LEVEL SENSOR

INFRARED UNIT HEATER SCHEDULE (PROPANE FIRED)

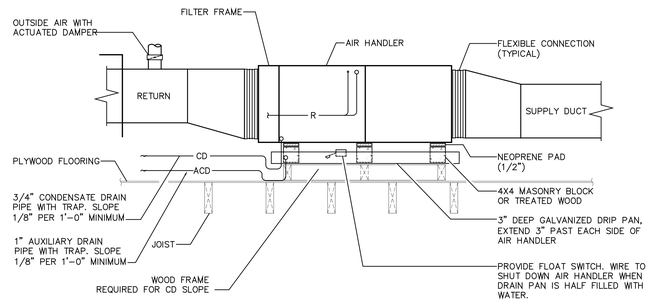
MARK	DESCRIPTION	MOUNTING	INPUT (BTUH)	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
GUH-1	GAS FIRED INFRARED UNIT HEATER	HANGING	50,000	120/1	SPACE-RAY LTU 50-30-L7	1,2,3,4,5
GUH-2	GAS FIRED INFRARED UNIT HEATER	HANGING	50,000	120/1	SPACE-RAY LTU 50-30-L7	1,2,3,4,5
GUH-3	GAS FIRED INFRARED UNIT HEATER	HANGING	50,000	120/1	SPACE-RAY LTU 50-30-L7	1,2,3,4,5

1. STANDARD MANUFACTURER WARRANTIES
2. REMOTE MOUNTED THERMOSTAT
3. COORDINATE MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT/OWNER.
4. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS
5. TWO STAGE HEATER

UNIT HEATER SCHEDULE (ELECTRIC)

MARK	DESCRIPTION	MOUNTING	OUTPUT (kW)	VOLTS/PH.	MANUFACTURER & MODEL NO.	ACCESSORIES
EUH-1	ELECTRIC UNIT HEATER	WALL MOUNT	1.5	120/1	REZNOR EHA	1,2,4,5,6

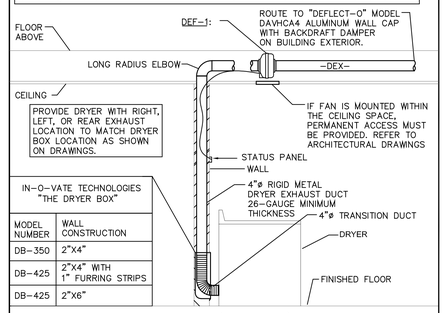
1. PROVIDE DISCONNECT
2. SURFACE MOUNTING KIT/SLEEVE
3. ROUGH-IN BOX (RECESSED INSTALLATION)
4. HEAVY DUTY ALUMINUM GRILL
5. INTERNAL, TAMPER-PROOF THERMOSTAT
6. COLOR STANDARD: ARCHITECT TO SELECT



1-5 TON AIR HANDLER (TYPICAL)
NOT TO SCALE

WHERE THE DRYER EXHAUST DUCT EQIVALENT LENGTH EXCEEDS 35 FEET OR IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG LOCATED WITHIN 6 FEET OF THE EXHAUST DUCT CONNECTION.

PROVIDE SIGNAGE AT DRYER STATING:
"THIS DRYER EXHAUST SYSTEM IS EQUIPPED WITH A REMOTELY LOCATED BOOSTER FAN. MAINTAIN/SERVICE DRYER EXHAUST FAN PER INSTALLATION AND OPERATING MANUALS."



IN-O-VATE TECHNOLOGIES "THE DRYER BOX"	
MODEL NUMBER	WALL CONSTRUCTION
DB-350	2"X4"
DB-425	2"X4" WITH 1" FURRING STRIPS
DB-425	2"X6"

DRYER EXHAUST DETAIL (TYPICAL)
NOT TO SCALE

GENERAL NOTES/MATERIALS AND INSTALLATION:

1. THE WORK UNDER THIS DIVISION INCLUDES THE INSTALLATION OF COMPLETE MECHANICAL SYSTEMS CONSISTING OF, BUT NOT LIMITED TO HEATING AND AIR CONDITIONING. ALL EQUIPMENT AND COMPONENTS SHALL BE INSTALLED PER THE MANUFACTURERS INSTALLATION, OPERATION AND MAINTENANCE MANUAL.
2. FURNISH AND INSTALL COMPLETE YEAR-ROUND HEATING AND AIR CONDITIONING SYSTEMS AS SHOWN ON THE DRAWINGS, FINISHED IN ALL RESPECTS READY FOR USE.
3. DO NOT SCALE PLANS. ROUGH FROM ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.
4. THE CONTRACTOR/SUBCONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS AFFECTING THIS WORK, PRIOR TO SUBMITTING HIS PROPOSAL/SIGNING A CONTRACT.
5. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES. THE CONTRACTOR SHALL APPLY FOR ALL REQUIRED PERMITS, INSPECTIONS, ETC. ALL WORK SHALL COMPLY WITH THE CURRENT SOUTH CAROLINA MECHANICAL CODE AND IN ACCORDANCE WITH SMACNA GUIDELINES.
6. ALL DUCTWORK LOCATED IN UNCONDITIONED AREAS INSIDE THE BUILDING THERMAL ENVELOPE SHALL BE GALVANIZED STEEL, UNLESS NOTED OTHERWISE. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES WITH MINIMUM 26-GAUGE. SUPPLY AND RETURN SHALL BE WRAPPED WITH AN R-6 (INSTALLED) RATED FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.
7. ALL DUCTWORK LOCATED IN UNCONDITIONED AREAS OUTSIDE THE BUILDING THERMAL ENVELOPE SHALL BE GALVANIZED STEEL, UNLESS NOTED OTHERWISE. DUCT SHALL BE FABRICATED, ASSEMBLED AND MOUNTED ACCORDING TO SMACNA GUIDELINES. SUPPLY AND RETURN SHALL BE WRAPPED WITH AN R-8 (INSTALLED) RATED FIBERGLASS BLANKET INSULATION AND FACTORY APPLIED VAPOR BARRIER. DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. SEAL ALL TAPED INSULATION JOINTS WITH MASTIC. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCTWORK. PROVIDE FLEXIBLE CONNECTIONS AT ALL RETURN AND SUPPLY DUCT CONNECTIONS TO AIR HANDLERS.
8. FLEXIBLE ROUND DUCTS SHALL BE FACTORY PRE-INSULATED WITH AN R-8 RATED FIBERGLASS INSULATION BLANKET AND VAPOR BARRIER OF ALUMINUM METALIZED POLYESTER SHEATHING LAMINATED TO A REINFORCING GLASS MESH. ROUND DUCT TAKE-OFFS SHALL BE CONICAL TYPE WITH INTEGRAL VOLUME DAMPER. BRANCH DUCTS SHALL BE RIGID METAL TO WITHIN 5 FEET OF REGISTER. FLEX DUCT SHALL NOT EXCEED 8 FEET.
9. ALL DUCTWORK MATERIALS, INCLUDING CEMENTS AND VAPOR BARRIER SHALL CONFORM TO THE REQUIREMENTS OF UL 181 STANDARDS FOR CLASS 1 AIR DUCT MATERIAL, NFPA-90A AND SMACNA FGDCS.
10. EXPOSED EXTERIOR DUCTWORK SHALL BE MINIMUM 20 GA. GALVANIZED STEEL. THE DUCTWORK SHALL BE WRAPPED WITH 3" OF RIGID INSULATION AND A VAPOR BARRIER. THE INSULATION SHALL BE PROTECTED BY AN 0.016" ALUMINUM JACKET. JACKET SHALL HAVE SMOOTH OR EMBOSSED FINISH. DUCTWORK INSTALLED IN THE HORIZONTAL SHALL HAVE A CROWN IN THE INSULATION/JACKET INSTALLATION TO PREVENT PONDING OF WATER. THE DUCTWORK SHALL BE SUPPORTED TO MEET SEISMIC REQUIREMENTS FOR THE AREA.
11. PROVIDE TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.
12. PROVIDE VOLUME DAMPERS AT ALL BRANCH TAKE-OFFS TO FACILITATE PROPER BALANCE.
13. PROVIDE ALL FILTER FRAMES WITH NEW DISPOSABLE FILTERS AT THE COMPLETION OF THE PROJECT.
14. PROVIDE WALL SLEEVES OR METAL THIMBLES AT LEAST 3/8" LARGER THAN THE O.D. OF ALL O.D. PIPING PENETRATING CONCRETE OR MASONRY WALLS, CEILINGS, OR FLOORS. SEAL AROUND PENETRATIONS WITH MATERIALS APPROVED BY THE ARCHITECT. SEAL AROUND SLEEVES IN EXTERIOR CONCRETE OR MASONRY WALLS WITH GROUT.
15. ALL ROOF PENETRATIONS SHALL BE FLASHED BY A LICENSED ROOFER AT NO ADDITIONAL EXPENSE TO OWNER.
16. PROVIDE WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST. COMPRESSORS SHALL BE WARRANTED FOR 5 YEARS.
17. DUCT ROUTING IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT ALL REQUIRED TURNS AND FITTINGS TO ROUTE DUCT AS SHOWN. FIELD VERIFY ALL CONDITIONS AFFECTING DUCT ROUTING PRIOR TO FABRICATION OF DUCT.
18. SIZE REFRIGERANT PIPING PER HEAT PUMP MANUFACTURER'S RECOMMENDATION FOR DISTANCE AND LIFT BETWEEN AIR HANDLER AND HEAT PUMP. INCLUDE ANY EQUIPMENT OR PIPE ACCESSORIES RECOMMENDED BY MANUFACTURER. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCTION LINE ACCUMULATORS, HEAD PRESSURE CONTROLS, TXV'S, ORIFICE CHANGE, CRANKCASE HEATER, PIPE MATERIAL, TIME DELAY RELAY, 3/4" ARMAFLEX PIPE INSULATION, AND UV PROTECTION ON EXPOSED PIPE INSULATION.
19. SEAL PERIMETER OF EXHAUST AND MAKE-UP AIR VENTS WITH PAINTABLE WEATHERPROOF SEALANT.
20. RESTROOM EXHAUST FANS SHALL BE INTERLOCKED WITH THE LIGHTS BY ELECTRICAL CONTRACTOR, UNLESS SPECIFIED OTHERWISE ON THE ELECTRICAL DRAWINGS.
21. PIPE PRIMARY CONDENSATE TO LOCATION SHOWN. PROVIDE P-TRAP WITH CLEAN-OUT AND SLOPE TO DRAIN. INSULATE ENTIRE DRAIN LINE WITH 1/2" ARMAFLEX INSULATION. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC WITH WELDED JOINTS. CONDENSATE PIPING WITHIN PLENUM RATED AREAS SHALL BE WRAPPED WITH 3M "FIRE BARIER PLENUM WRAP 5A+" OR SHALL BE TYPE "L" COPPER.
22. MECHANICAL EQUIPMENT ACCESS, CATWALKS, PLATFORMS AND GUARD RAILS PROVIDED BY GENERAL CONTRACTOR. EQUIPMENT ACCESS AND CLEARENCES PER MANUFACTURE INSTALLATION RECOMMENDATIONS AND CODES SHALL BE PROVIDED.
23. COORDINATE EXACT LOCATION OF CEILING GRILLES AND DIFFUSERS WITH LIGHTING AND OTHER TRADES. WHERE DIFFUSER OR GRILLE INTERFERES WITH LIGHTING, LOCATE GRILLE OR DIFFUSER IN NEAREST OPEN TILE TO LOCATION SHOWN.
24. SMOKE ALARM SHUTDOWN: MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY AND RETURN OF EACH AIR HANDLER EXCEEDING 2000 CFM NOMINAL CAPACITY. CONTRACTOR SHALL WIRE AIR HANDLERS TO SHUT DOWN IN THE EVENT OF SMOKE DETECTION.
25. PROVIDE SEISMIC PROTECTION OF DUCT, AIR HANDLERS, AND OUTDOOR EQUIPMENT PER SECTION 301.18 OF THE IMC.
26. ALL EXHAUST DUCTS AND DEHUMIDIFIER DUCT SHALL BE RIGID GALVANIZED STEEL AND INSULATED FOR ENTIRE RUN. INSULATE PER NOTE 6.
27. HEAT PUMPS/CONDENSING UNITS SHALL BE MOUNTED ON CONCRETE PADS 4" MINIMUM ABOVE FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
28. PROVIDE AUXILIARY DRAIN PANS WITH FLOAT SWITCH AND OVERFLOW PIPE. PIPE AS ACCEPTABLE BY LOCAL BUILDING OFFICIALS FOR AIR HANDLERS.
29. TEMPORARY CLOSURE OF POLYETHYLENE FILM OR SIMILAR COVERING SHALL BE PROVIDED AT ENDS OF DUCTS WHICH ARE NOT CONNECTED TO EQUIPMENT OR AIR DEVICES. AT THE TIME OF INSTALLATION, DUCTWORK AWAITING INSTALLATION, AND EQUIPMENT INSTALLED OR AWAITING INSTALLATION TO PREVENT DUST AND DEBRIS FROM ENTERING THE SYSTEM.
30. PROVIDE SQUARE TO ROUND TAPS WHERE BRANCH DUCT DIAMETER IS EQUIVALENT TO MAIN DUCT HEIGHT.
31. THE SYSTEM SHALL BE PROPERLY TESTED, ADJUSTED AND BALANCED BY A THIRD PARTY PAID FOR BY THE OWNER. REFER TO THE SPECIFIACTIONS FOR THE CONTRACTORS' RESPONSIBILITIES.
31. PERMANENT EQUIPMENT SHALL NOT BE PLACED INTO SERVICE PRIOR TO FINAL ACCEPTANCE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE OWNER.

LEGEND

- 18X12 — RECTANGULAR DUCT ROUTING WITH CLEAR INSIDE WIDTH X HEIGHT DIMENSIONS NOTED IN INCHES.
- 10"ø — RIGID ROUND BRANCH DUCT WITH NOMINAL DIAMETER NOTED IN INCHES.
- OR — DUCT RISER
- OR — DUCT TURN DOWN
- EXHAUST DUCT TURN DOWN
- CEILING DIFFUSER
- CEILING RETURN GRILLE
- CEILING MOUNTED EXHAUST GRILLE
- CEILING MOUNTED GRILLE OR REGISTER
- CEILING MOUNTED LINEAR SLOT REGISTER/DIFFUSER
- WALL MOUNTED SUPPLY OR EXHAUST LOUVER/REGISTER/CAP
- DRYER WALL CAP, ALUMINUM WITH BACKDRAFT DAMPER
- DUCT TRANSITION (SQUARE TO ROUND)
- DUCT TRANSITION
- OR — DUCT CAP/ END OF DUCT RUN
- MANUAL DUCT DAMPER
- MANUAL REMOTE OPERATED DAMPER, UNLESS NOTED OTHERWISE.
- O — OPERATED SCREW DRIVE ASSEMBLY
- CO — CARBON MONOXIDE DETECTOR, MOUNT 48" AFF
- NO2 — NITROGEN DIOXIDE DETECTOR, MOUNT 48" AFF
- T — THERMOSTAT, MOUNT 48" ABOVE FINISHED FLOOR
- TS — TEMPERATURE SENSOR, MOUNT 48" ABOVE FINISHED FLOOR
- H — HUMIDITY SENSOR, MOUNT 48" ABOVE FINISHED FLOOR
- C — CONTROLLER, MOUNT 48" ABOVE FINISHED FLOOR
- S — U.L. LISTED DUCT MOUNTED SMOKE DETECTOR. WIRE TO SHUT DOWN AIR HANDLER UPON DETECTION OF SMOKE.
- MARK / CFM — GRILLE, REGISTER, LOUVER AND DIFFUSER MARK WITH ASSOCIATED SCHEDULE ITEM AND BALANCED CFM NOTED.
- FIRE DAMPER. (REFER TO ARCHITECTURAL PLAN FOR ASSEMBLY RATINGS).
- SMOKE DAMPER. REFER TO ARCHITECTURAL PLAN FOR ASSEMBLY RATINGS.
- FIRE/SMOKE DAMPER. REFER TO ARCHITECTURAL PLAN FOR ASSEMBLY RATINGS.
- XX — TRANSITION, WHERE XX ; ED = TO EXPOSED DUCT
- AFF — ABOVE FINISHED FLOOR
- R — REFRIGERANT LINES
- CD — CONDENSATE DRAIN PIPING
- OA — OUTSIDE AIR
- EX — EXHAUST
- DEX — DRYER EXHAUST
- PREFABRICATED CONDENSATE SPLASH BLOCK
- EXISTING EQUIPMENT/COMPONENTS/DUCT/ETC.
- DEMOLISH/REMOVE EXISTING EQUIPMENT/COMPONENTS
- (E) — EXISTING
- (R) OR — RELOCATED

NOTE TO BIDDERS/CONTRACTORS:

THE DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DRAWING. SOME TURNS, ELEVATION CHANGES, DUCTWORK FITTINGS, ETC. WILL HAVE TO BE FABRICATED, CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. MECHANICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR COORDINATION PRIOR TO SUBMITTING A BID.

DIFFUSER, REGISTER, AND LOUVER SCHEDULE

MARK	DESCRIPTION	SERVICE	CFM	STAT. PRESS.	NECK SIZE	MANUFACTURER & MODEL NO.	ACCESSORIES
CD1	CEILING DIFFUSER	SUPPLY	0-100	.056	6"ø	TITUS TMSA-AA (12"X12" or 24"x24" FACE)	1,3,5,6
CD2	CEILING DIFFUSER	SUPPLY	101-245	.074	8"ø	TITUS TMSA-AA (24"X24" FACE)	1,3,5,6
CD3	CEILING DIFFUSER	SUPPLY	246-380	.084	10"ø	TITUS TMSA-AA (24"X24" FACE)	1,3,5,6
G1	CEILING/SIDEWALL GRILLE	SUPPLY	0-100	.016	10"x4"	TITUS 272FL/FS	2,4,6,8
G2	CEILING/SIDEWALL GRILLE	SUPPLY	101-250	.025	12"x6"	TITUS 272FL/FS	2,4,8,6
G3	CEILING/SIDEWALL GRILLE	SUPPLY	251-325	.02	12"x8"	TITUS 272FL/FS	2,4,6,8
G4	CEILING/SIDEWALL GRILLE	SUPPLY	326-500	.02	18"x8"	TITUS 272FL/FS	2,4,8,6
G5	CEILING/SIDEWALL GRILLE	SUPPLY	501-650	.02	18"x10"	TITUS 272FL/FS	2,4,6,8
R1	RETURN GRILLE	RETURN	< 600	---	--	TITUS 50FF (24"X12" FACE)	3,6
R2	RETURN GRILLE	RETURN	601-2000	---	--	TITUS 50FF (24"X24" FACE)	2,3,6
R3	RETURN GRILLE	RETURN	< 200	---	--	TITUS 50F (6"X6" FACE)	2,6,8
EX1	EXHAUST GRILLE	EXHAUST	---	---	48"x48"	TITUS 50F (48"X48" FACE)	2,6,8
TG1	TRANSFER GRILLE	TRANSFER	---	---	36"x16"	TITUS 4F (36"X16" FACE)	2,6,7

ACCESSORIES:
1. NECK DAMPER
2. SURFACE MOUNT
3. LAY-IN
4. PROVIDE OPPOSED BLADE DAMPER (FACE OPERATED)
5. AIR SCOOP DAMPER (FACE OPERATED)
6. CONFIRM/COORDINATE COLOR WITH ARCHITECT PRIOR TO ORDERING.
7. ALUMINUM PLASTER FRAME TYPE MOUNTING FRAME TO ALLOW FOR REMOVAL & REINSTALLATION OF GRILLE USING EXPOSED SCREWS ON THE GRILLE
8. REGISTER BOOT SUPPORT RAILS

NOTES:
1. BRANCH DUCT TO BE DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE
2. DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE INDICATED BY FLOW ARROWS (←→)
3. ARCHITECT TO APPROVE/CONFIRM COLOR OF DIFFUSERS/REGISTERS/GRILLES/LOUVERS.

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SOUTH CAROLINA — RAST DALLERY ENGINEERS, PC — No. 3251 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 17473 — 9/13/24 — ROBERT A. DALLERY

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

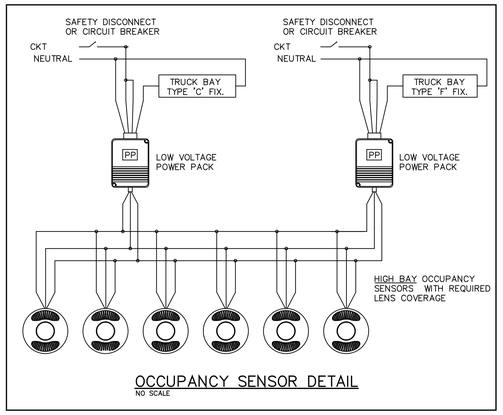
SHEET TITLE
LEGEND, NOTES, SCHEDULES AND DETAILS

SHEET NO.
M3.0

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OCCUPANCY SENSOR DETAIL
NO SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL EQUIPMENT BEING PROVIDED BY THE OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL PROVIDE PANEL SCHEDULE DIRECTORIES REFLECTING FINAL CIRCUITING FOR ALL PANELS.
3. CONTRACTOR SHALL SEAL PENETRATIONS IN ANY FIRE RATED CONSTRUCTION (WALLS, CEILINGS, ETC).
4. CONTRACTOR SHALL VERIFY MOUNTING HEIGHT REQUIREMENTS OF EXTERIOR WALL MOUNTED FIXTURES WITH ARCHITECTURAL ELEVATIONS DRAWINGS AND OWNER PRIOR TO INSTALLATION.
5. DIMMER SWITCHES MUST BE INSTALLED PER THE MANUFACTURES INSTALLATION INSTRUCTIONS. GROUPING/GANGING DIMMER SWITCHES TOGETHER MAY BUILD UP HEAT IF NOT PROPERLY SPACED/INSTALLED.
6. DIMMER SWITCHES WILL NEED TO BE COORDINATED/CONFIRMED AND MUST BY COMPATIBLE WITH THE LIGHT FIXTURES BEING CONTROLLED.
7. CONNECT EXIT/EMERGENCY LIGHTS TO THE UNSWITCHED LEG OF THE LIGHTING CIRCUIT SERVING THE AREA.

KEYNOTES:

1. EXTERIOR BUILDING LIGHT FIXTURES OA, OB AND OC WILL OPERATE VIA THE PHOTOCELL/TIME CLOCK FUNCTION.
2. REFER TO MAUNFACTURES INSTALLATION INSTRUCTION AND OCCUPANCY SENSOR DETAIL FOR 120V AND LOW VOLTAGE CONNECTIONS.

LIGHT FIXTURES SCHEDULES:

WITH FACTORY BALLAST
XX = NL = NIGHT LIGHT ALSO
XX XX = E = EMERGENCY/ BATTERY BACKUP ALSO

A — 2X4 LED ADJUSTABLE FLAT PANEL, 40W, MULTI-LUMEN
ILP: MODEL #VPAN24-33L/44L/55L-U-40 OR EQUAL
(-SM) PROVIDE SURFACE MOUNT KIT IN GYP BOARD CEILING.

B — 2X2 LED ADJUSTABLE FLAT PANEL, 40W, MULTI-LUMEN
ILP: MODEL #VPAN22-27L/33L/44L-U-40 OR EQUAL
(-SM) PROVIDE SURFACE MOUNT KIT IN GYP BOARD CEILING.

C — 1.5X2 HIGH BAY PENDANT, 210W, 29,500 LUMENS, 4000K
ILP: MODEL #EVT-30L-U-40-FRL OR EQUAL
(-SM) PROVIDE SURFACE MOUNT KIT IN GYP BOARD CEILING.

D — 4" RECESS DOWN LIGHT 27W, 2000 LUMENS, 4000K, 90CRI
LITON: CH428-UE-D10/CR4L17WW OR EQUAL

E — 4' LED STRIP LIGHT, 35W, 4620 LUMENS, 4000K WITH FROSTED ACRYLIC LENS.
ILP: MODEL #SS4-4L-U-40-FRL OR EQUAL

F — 8' LED STRIP LIGHT, 90W, 11,520 LUMENS, 4000K, ACRYLIC LENS.
ILP: MODEL #SS8-12L-U-40-FRL

G — UNDER CABINET LIGHT, 15W, 910 LUMENS, 4000K, POLYCARBONATE LENS.
COLUMBIA: MODEL #CUC2-CS-ED-120

OA — 4" RECESS DOWN LIGHT 27W, 2000 LUMENS, 4000K, 90CRI
LITON: CH428-UE-D10/CR4L17WW OR EQUAL

OB — LARGE WALL PACK 40W, 5400 LUMENS, 4000K, 90CRI
ILP: SWP-5L-U-CCTS-BRZ OR EQUAL

OC — WALL SCONCE 9W, 750 LUMENS, 4000K, 80CRI, REMOVE/BY-PASS INTEGRAL PHOTOCELL.
SPITZER: VANCWP-7L-CC-BZ OR EQUAL

OD — FLAG POLE SPOT LIGHT, 52W, 4000K.
ILP: MODEL #CFM-52W-U-40-N76/M-BRZ OR EQUAL

EM — EMERGENCY LIGHT
LIGHT-ALARMS: LCA-2LED OR EQUAL
COMPASS: MODEL #CU2

EMH — EMERGENCY LIGHT, HIGH OUTPUT
LIGHT-ALARMS: LCA-2LED OR EQUAL
COMPASS: MODEL #CU2HL

XEM / EMR 4 — COMBINATION EXIT/EMERGENCY LIGHT WITH REMOTE
LIGHT-ALARMS: QLXN500RN-2LED/ELF652D/LED-WP
COMPASS: MODEL #CCRRC & CORD OR EQUAL

X — EXIT SIGN. WHITE WITH RED LETTERS
LIGHT-ALARMS: QLXN500RN OR EQUAL
COMPASS: MODEL #CER

NOTE:
1. PROVIDE 120/277 (UNIVERSAL VOLTAGE) FOR LIGHT FIXTURES.
2. ARCHITECT/OWNER SHALL CONFIRM ALL FIXTURE TYPE, COLORS, FINISHES ETC. PRIOR TO ORDERING/PURCHASING.
3. ARCHITECT/OWNER TO APPROVE ALL DECORATIVE FIXTURES.

DIMMER & SENSOR LEGEND:

S_{DSD} — DIMMER SWITCH, ON/OFF TOGGLE WITH PRESET SLIDE DIMMER, SINGLE POLE OR 3-WAY, SIZED TO MATCH TYPE AND LOAD BEING DIMMED. FOR 0-10V LED DIMMING CAPABILITY. SENSORWORX OR EQUAL.

S_{VS} — WALL VACANCY/OCCUPANCY SENSOR, DUAL TECHNOLOGY, SINGLE RELAY LINE VOLTAGE, SENSORWORX SWX-123-WH OR EQUAL.

S_{VSD} — 0-10V DIMMER, PIR VACANCY/OCCUPANCY SENSOR SWITCH, ON/OFF TOGGLE WITH PRESET SLIDE DIMMER, SINGLE POLE/MULTI LOCATION, SIZED TO MATCH TYPE AND LOAD BEING DIMMED, SENSORWORK SWX-123-D-WH OR EQUAL.

S_T — INTERVAL TIMER SWITCH, 1-12 HOUR, 120V, 800W MAX, MANUAL ON/OFF BUTTON.
SENSORWORK SWX-12H-WH OR EQUAL.

NOTE:
1. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SENSOR/SWITCH WIRING AND CONNECTION DETAILS.
2. PROVIDE ALL NECESSARY POWER PACKS IF REQUIRED FOR A COMPLETE CONNECTION TO LOW VOLTAGE SENSORS.

1 E1.0 FLOOR PLAN
SCALE: 3/16"=1'-0"
PLAN NORTH / TRUE NORTH

2 E1.0 4TH BAY - ALTERNATE #1
SCALE: 3/16"=1'-0"
PLAN NORTH / TRUE NORTH

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HORRY COUNTY — THE INDEPENDENT REPUBLIC — S. C.

PROJECT

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FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

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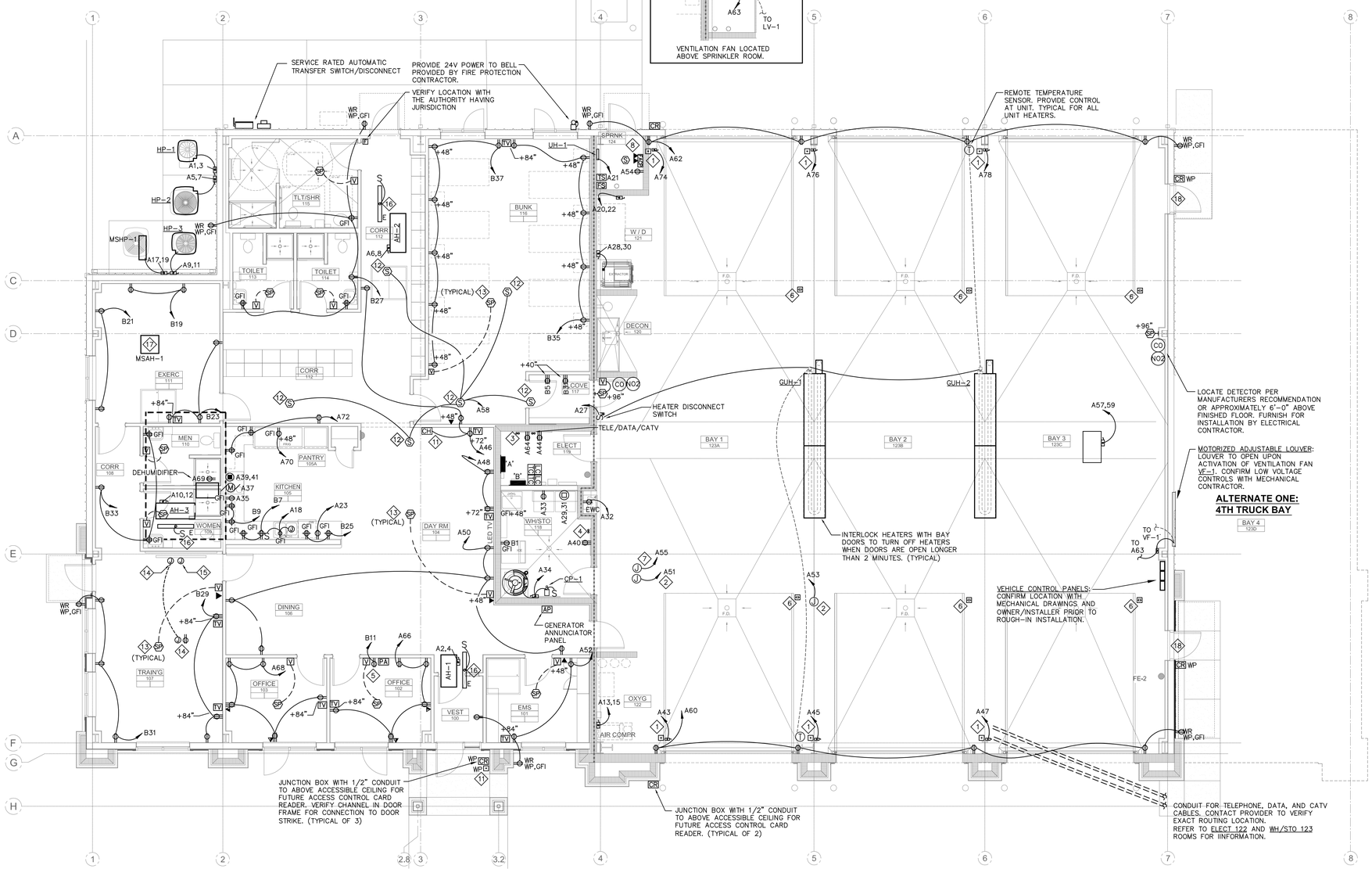
SHEET TITLE
ELECTRICAL
PLAN-LIGHTING

SHEET NO.
E1.0

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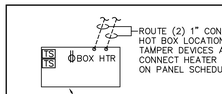
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FIRE SPRINKLER HOT BOX DETAIL

NO SCALE



NOTE:
1. IF FIRE SPRINKLER HOT BOX IS REQUIRED, PROVIDE ALL NECESSARY CONDUITS AND CIRCUITS TO BOX FOR FIRE ALARM AND HEATER CONNECTIONS.

FIRE ALARM NOTES:

1. THE SYSTEM SHALL BE A COMPLETE, OPERABLE AND TESTED FIRE ALARM SYSTEM WITH CELLULAR FACP, INITIATING DEVICES, INDICATING DEVICES AND ASSOCIATED WIRING ALL IN ACCORDANCE WITH NFPA 72A, THE STATE FIRE MARSHALL'S RULES & REGULATIONS, THE STANDARD FIRE SAFETY CODE, THE LIFE SAFETY CODE AND BE UL LISTED.
2. THE SYSTEM SHALL BE NON-CODED, SUPERVISED.
3. SMOKE DETECTORS SHALL BE LOCATED PER NFPA 72 AND MANUFACTURER'S REQUIREMENTS. DETECTORS SHALL NOT BE PLACED WITHIN 3'-0" OF ANY CEILING MOUNTED HVAC SUPPLY AIR DEVICE.
4. COORDINATE HEIGHT OF ALL WALL HORN/STROBES TO AVOID CONFLICT WITH INTERIOR DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.
5. CONNECT TAMPER AND FLOW SWITCHES TO FIRE ALARM SYSTEM.
6. THE CONTROL PANEL SHALL BE UL/FM APPROVED AND SHALL CONTAIN ALL NECESSARY CONTROLS, POWER SUPPLIES, WIRING, RELAYS AND INDICATORS REQUIRED TO OPERATE THE SYSTEM.
7. SUBMIT COMPLETE SHOP DRAWINGS TO AUTHORITIES HAVING JURISDICTION AND TO THE ENGINEER, PRIOR TO START OF INSTALLATION.
8. UPON COMPLETION OF INSTALLATION, THE CONTRACTOR SHALL THOROUGHLY CHECK THE SYSTEM AND PROVIDE A STATEMENT THAT THE SYSTEM HAS BEEN TESTED AND IS READY FOR OPERATION.
9. INSTRUCT THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF THE SYSTEM AND PROVIDE HIM WITH (2) SETS OF COMPLETE OPERATING INSTRUCTIONS AND "AS-BUILT" DRAWINGS.
10. THE ENTIRE SYSTEM, INCLUDING PARTS AND LABOR SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST.

GENERAL NOTES:

1. THE FIRE ALARM SYSTEM (EXCEPT FOR THE (4) SLEEPING AREA DETECTORS) SHALL BE BID INDEPENDENTLY OF THE ELECTRICAL CONTRACT. THE FIRE ALARM SYSTEM IS NOT IN THE SCOPE OF WORK FOR THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL INSTALL 120 VOLT POWER CONNECTIONS AND ALL DEVICE AND JUNCTION BOXES AND RACEWAYS REQUIRED FOR DEVICE AND CABLE INSTALLATION. ALL CONTRACTORS SHALL COORDINATE AS REQUIRED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.
2. PROVIDE 1/2" CONDUIT WITH PULL STRING FROM A JUNCTION BOX ABOVE EACH ENTRANCE DOOR TO THE ELECTRICAL ROOM FOR FUTURE SECURITY SYSTEM. CONTACT OWNER FOR EXACT LOCATION OF SECURITY PANEL AND MOVE DUPLEX TO ACCOMMODATE.
3. CONNECT OCCUPANCY SENSORS IN EACH TOILET ROOM TO THE FAN CONTROL FOR THAT ROOM. SEE DETAIL, THIS SHEET.
4. ALL RECEPTACLES AND SWITCHES IN TRUCK BAYS ARE MOUNTED AT A MINIMUM OF 42"AFF, UNLESS NOTED OTHERWISE, AND RECEPTACLES SHALL BE GFCI TYPE.

VEHICLE EXHAUST SYSTEM:

1. REFER TO MECHANICAL DRAWINGS AND MANUFACTURER INSTALLATION INSTRUCTIONS FOR CONNECTIONS AND DETAILS.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL EQUIPMENT, CONDUITS, CONDUCTORS AND CONNECTIONS FOR A COMPLETE INSTALLATION OF EACH VEHICLE EXHAUST SYSTEM.
3. ELECTRICAL CONTRACTOR SHALL CONFIRM ALL ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT BEING PROVIDED/INSTALLED.

KEYED NOTES:

1. OVERHEAD DOOR. MOUNT LOCAL SAFETY SWITCH ADJACENT TO MOTOR. PROVIDE 3/4" CONDUIT TO CONTROL SWITCH PROVIDED WITH DOOR AT +48"AFF. COORDINATE EXACT REQUIREMENTS WITH DOOR SUPPLIER.
2. CEILING MOUNTED 4" SQUARE JUNCTION BOX FOR OWNER PROVIDED CORD REEL. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE (3) 2" CONDUIT TO PROPERTY LINE FOR TELEPHONE CABLES, DATA CABLES, AND FUTURE USE AND (1) 4" CONDUIT WITH PULL STRING FOR FUTURE COUNTY COMMUNICATIONS CABLES. STUB UP FUTURE CONDUIT AT TELEPHONE FEED POINT WITH WEATHERPROOF CAPS. CONTACT HTC FOR EXACT LOCATION OF SOURCE EQUIPMENT.
4. PROVIDE (1) 2" CONDUIT TO PROPERTY LINE FOR CATV COMPANY CABLES AND (1) 2" CONDUIT FOR DATA CABLES. CONTACT HTC FOR EXACT LOCATION OF SOURCE EQUIPMENT.
5. STATION ALERTING SYSTEM. SEE "STATION ALERTING SYSTEM DETAIL," SHEET E4.0 FOR ADDITIONAL INFORMATION.
6. OVERHEAD DOOR SENSOR. SEE "TRUCK BAY OVERHEAD DOOR/HEATER WIRING DETAIL," SHEET E4.0 FOR ADDITIONAL INFORMATION.
7. CEILING MOUNTED JUNCTION BOX WITH 120V-30A POWER FOR AMBULANCE EQUIPMENT. VERIFY EXACT LOCATION OF JUNCTION BOX WITH OWNER PRIOR TO ROUGH-IN.
8. AUTOMATIC FIRE ALARM SYSTEM TO BE PROVIDED BY JCI OR EQUIVALENT AND SHALL BE FIRE-LITE ALARMS, AND INCLUDE THE FOLLOWING DEVICES: 5-ZONE CONTROL PANEL, SPRINKLER FLOW/TAMPER MONITOR MODULES, PHOTOELECTRIC SMOKE DETECTOR (ABOVE FACP & ELECRICAL ROOM), MANUAL PULL STATION, AND COMBINATION HORN/STROBE NOTIFICATION APPLIANCE. PROVIDE TWO TELEPHONE LINES, ONE DEDICATED. SEE GENERAL NOTE #1.
11. DOORBELL CHIME, NUTONE #LA18WH WITH #C905 TRANSFORMER, MOUNTED AT +84"AFF. PUSHBUTTON, NUTONE #PB69LWH, MOUNTED AT +48"AFF. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
12. 120 VOLT COMBO CO/PHOTOELECTRIC SMOKE DETECTOR WITH SOUNDER BASE BY ELECTRICAL CONTRACTOR.
13. INSTALL 1/2" CONDUIT WITH PULL STRING FOR STATION ALERTING SYSTEM WIRING TO CENTRAL STATION ALERTING SYSTEM AT LOCATION SHOWN ON THIS DRAWING. CONFIRM EXACT LOCATION OF EQUIPMENT WITH OWNER.
14. INSTALL CEILING MOUNTED RECEPTACLE FOR OVERHEAD PROJECTOR PLUS 4X4 J-BOX AT PROJECTOR WITH 1/2" CONDUIT WITH PULL STRING FROM THIS J-BOX TO A J-BOX AT 18" AFF AND TO DATA/PHONE RECEPTACLE AS SHOWN. CONTACT OWNER FOR EXACT LOCATION OF THESE DEVICES.
15. INSTALL 4X4 J-BOX IN CEILING FOR FUTURE PROJECTOR SCREEN AND CONDUIT WITH PULL STRING TO RECEPTACLE BOX AS SHOWN AND TO JUNCTION BOX @ 48" AFF FOR CONTROL SWITCH. CONTACT OWNER FOR EXACT LOCATION OF THESE DEVICES. PROVIDE SHOP DRAWINGS PRIOR TO INSTALLATION AND COORDINATE MOUNTING LOCATION AND INSTALLATION DETAILS WITH OWNER'S REPRESENTATIVE.
16. INSTALL (1) TYPE E LIGHT FIXTURE NEAR EACH AIR HANDLER TO PROVIDE LIGHT FOR MAINTENANCE. SWITCH LIGHT NEAR ACCESS OPENING. CONNECT TO THE NEAREST LIGHTING CIRCUIT.
17. POWER SUPPLY FOR MSAH-(X) UNIT IS PROVIDED BY THE CORRESPONDING OUTDOOR UNIT MSHP-(X) UNIT CONTROL CABLE. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR DETAILS AND CONNECTIONS.
18. ROUTE 1" CONDUIT THROUGH BAYS FROM BOTH SIDE DOORS & INTO THE ELECTRICAL ROOM. CONFIRM DOOR LOCATIONS AND REQUIREMENTS WITH OWNER.
19. LOCATE RECEPTACLE OUTLET NEAR DEHUMIDIFIER CONNECT TO CIRCUIT AS SHOWN.

1 FLOOR PLAN
E1.1 SCALE: 3/16"=1'-0"

PLAN NORTH / TRUE NORTH

2 4TH BAY - ALTERNATE #1
E2.0 SCALE: 3/16"=1'-0"

PLAN NORTH / TRUE NORTH

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 17473 — 9/13/24 — ROBERT J. DALLERY

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR: FINKLEA FIRE STATION #6

HORRY COUNTY SOUTH CAROLINA

PROJECT NUMBER
24002

DRAWN: CHECKED:

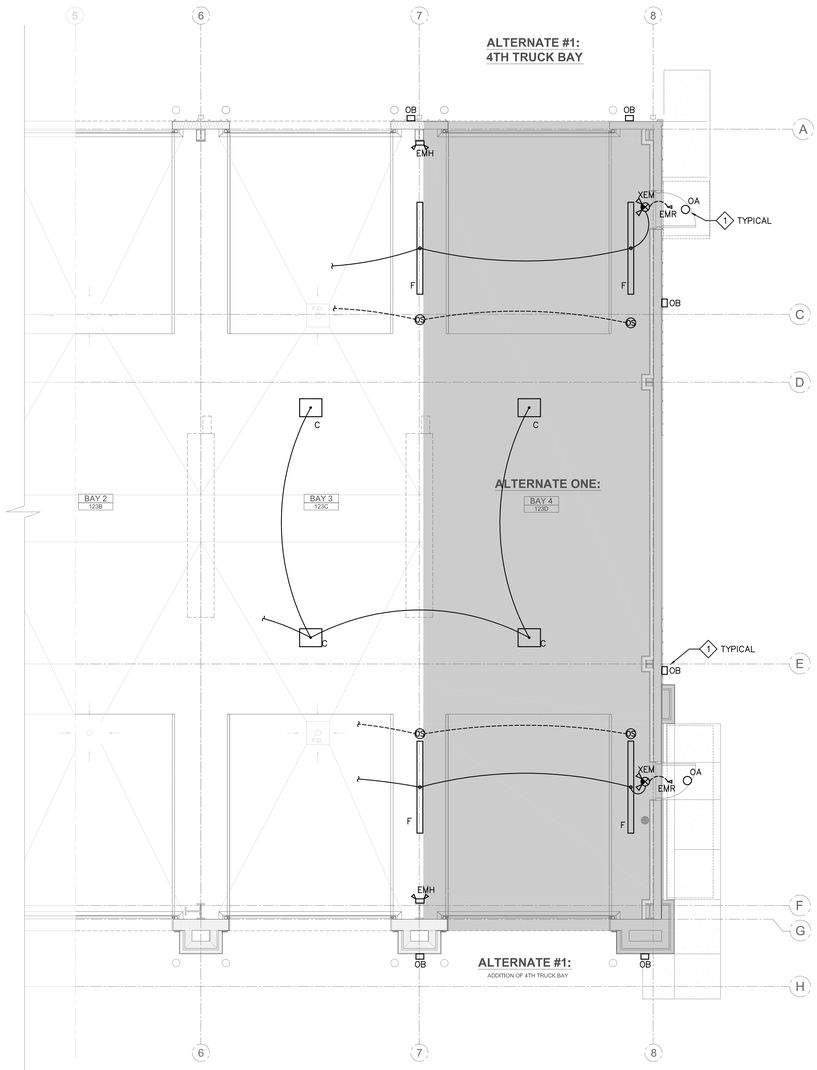
DATE: 8-28-24

SHEET TITLE
ELECTRICAL PLAN-POWER

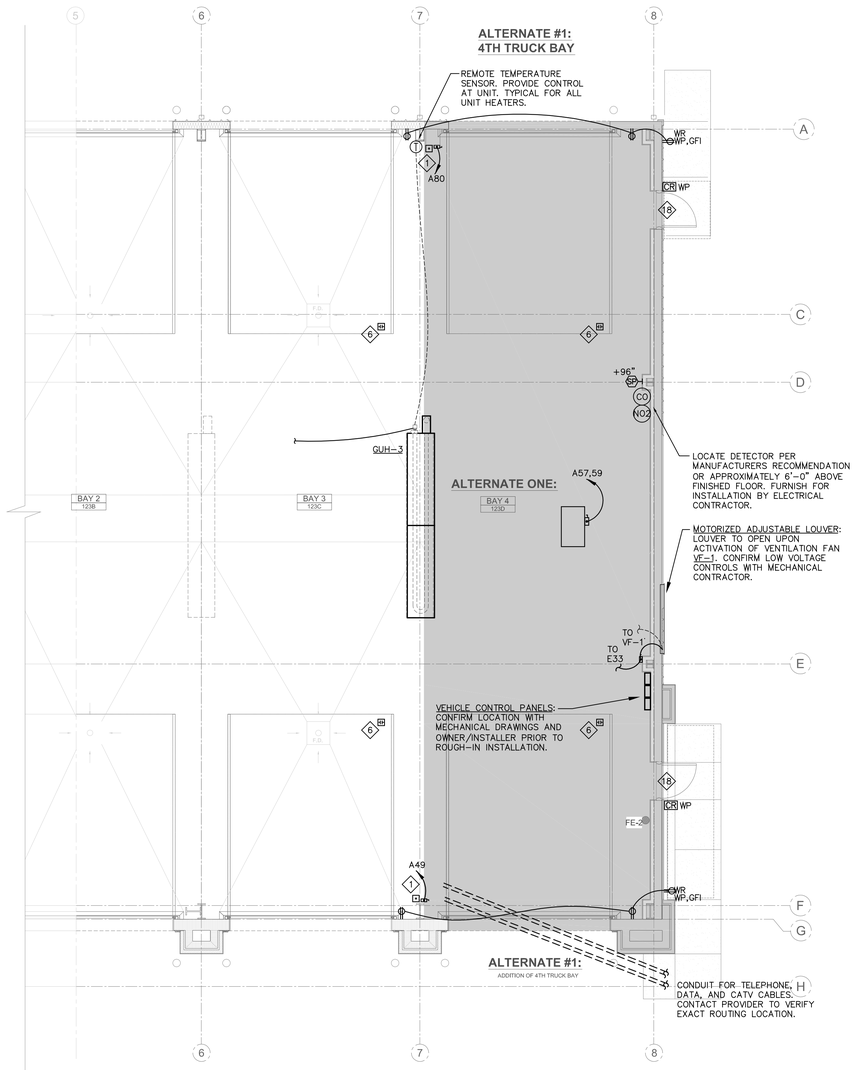
SHEET NO.
E2.0

ALTERNATE ONE:

1. ADD ALTERNATE NUMBER ONE
CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE FOURTH TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.



1 E3.0 **ALTERNATE #1 - 4TH TRUCK BAY**
SCALE: 1/4"=1'-0"



2 E3.0 **ALTERNATE #1 - 4TH TRUCK BAY**
SCALE: 1/4"=1'-0"

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PROJECT NUMBER
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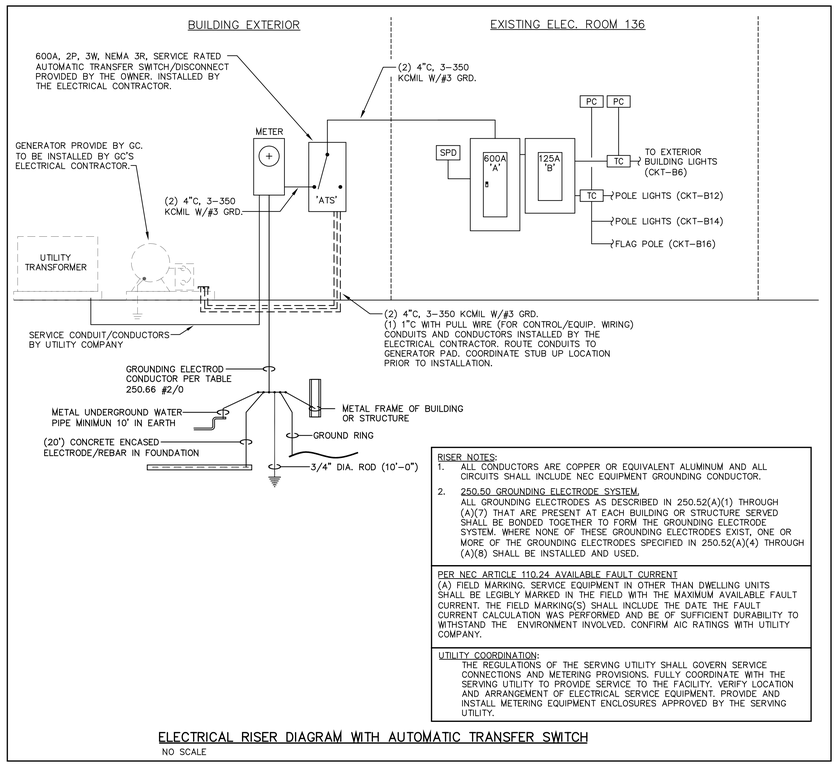
DATE: 8-28-24

SHEET TITLE
ALTERNATE #1
FLOOR PLAN

SHEET NO.
E3.0

RAST DALLERY ENGINEERS, PC
514 ALDER STREET, SUITE 4
MYRTLE BEACH, SC 29577
PHONE: (843) 232-0408

JOB NO: 24029



RISER NOTES:
1. ALL CONDUCTORS ARE COPPER OR EQUIVALENT ALUMINUM AND ALL CIRCUITS SHALL INCLUDE NEC EQUIPMENT GROUNDING CONDUCTOR.
2. 250.50 GROUNDING ELECTRODE SYSTEM. ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52(A)(1) THROUGH (A)(7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE GROUNDING ELECTRODES EXIST, ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN 250.52(A)(4) THROUGH (A)(8) SHALL BE INSTALLED AND USED.

PER NEC ARTICLE 110.24 AVAILABLE FAULT CURRENT
(A) FIELD MARKING. SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONFIRM AIC RATINGS WITH UTILITY COMPANY.

UTILITY COORDINATION:
THE REGULATIONS OF THE SERVING UTILITY SHALL GOVERN SERVICE CONNECTIONS AND METERING PROVISIONS. FULLY COORDINATE WITH THE SERVING UTILITY TO PROVIDE SERVICE TO THE FACILITY. VERIFY LOCATION AND ARRANGEMENT OF ELECTRICAL SERVICE EQUIPMENT. PROVIDE AND INSTALL METERING EQUIPMENT ENCLOSURES APPROVED BY THE SERVING UTILITY.

ELECTRICAL RISER DIAGRAM WITH AUTOMATIC TRANSFER SWITCH
NO SCALE

PANEL: 'A'
GE, SQUARE D, EATON
AMPACITY = 600 AMPS
AIC RATING = 22,000 AMPS
VOLTAGE = 240 / 120V, 1PH, 3W

ISO-GRD [ ] NEUTRAL [X]
GROUND [X]
MAIN CB [ ] SIZE: ____ AMP
MLO [X] SIZE: 600 AMP
SURFACE [X] RECESSED [ ]

TYP	VA	DESCRIPTION	BKR	WIRE	#	PH	#	WIRE	BKR	DESCRIPTION	VA	TYP
H	2,280	HP-1	25 / 2	#10	1	A	2	#10	25 / 2	AH-1	4,112	H
			/		3	B	4		/	(3.84KW)		
H	6,012	HP-2	60 / 2	#6	5	A	6	#6	60 / 2	AH-2	11,232	H
			/		7	B	8		/	(9.6KW)		
H	4,200	HP-3	35 / 2	#10	9	A	10	#8	45 / 2	AH-3	8,712	H
			/		11	B	12		/	(7.68KW)		
E	11,500	SCBA EQUIP	50 / 2	#6	13	A	14		20 / 1	SPARE		
		(10HP-240V-1P)	/		15	B	16		20 / 1	SPARE		
H	2,400	MSHP-1/MSAH-1	20 / 2	#12	17	A	18	#12	20 / 1	DISPOSAL	1,130	R
			/		19	B	20	#8	35 / 2	GEAR DRYER	4,000	E
E	1,500	UH-1	20 / 1	#12	21	A	22		/			
R	1,200	DISHWASHER	20 / 1	#12	23	B	24	#10	20 / 1	FP HOT BOX	750	E
		SPARE	20 / 1		25	A	26		20 / 1	SPARE		
E	1,000	GUH'S	20 / 1	#12	27	B	28	#12	20 / 2	EXTRACTOR	1,680	E
R	4,500	DRYER	30 / 2	#10	29	A	30		/	(240V-1P)		
			/		31	B	32	#12	20 / 1	EVIC	500	R
R	1,500	WASHER	20 / 1	#12	33	A	34	#12	20 / 1	WTR HTR/CP-1	360	E
R	1,200	MICROWAVE	20 / 1	#12	35	B	36	#6	60 / 2	SPD	200	E
R	1,200	RANGE HOOD	20 / 1	#12	37	A	38		/			
R	12,000	RANGE	50 / 2	#6	39	B	40	#12	20 / 1	REC-WH/STO	1,200	R
			/		41	A	42		20 / 1	SPARE		
M	1,130	OVH DOOR #1	20 / 1	#12	43	B	44	#12	20 / 1	TTB/CTB	360	R
M	1,130	OVH DOOR #2	20 / 1	#12	45	A	46	#12	20 / 1	REC-DAYRM.	540	R
M	1,130	OVH DOOR #3	20 / 1	#12	47	B	48	#12	20 / 1	REC-DAYRM. DB	540	R
		SPARE	20 / 1		49	A	50	#12	20 / 1	REC-DAYRM. DINE	900	R
E	1,200	CORD REEL CLG.	20 / 1	#12	51	B	52	#12	20 / 1	REC-OFFICE 101	720	R
E	1,200	CORD REEL CLG.	20 / 1	#12	53	A	54	#12	20 / 1	FACP	200	E
E	2,500	AMBULANCE, CLG.	30 / 1	#10	55	B	56		20 / 1	SPARE		
E	3,500	DIESEL EX. SYS.	60 / 2	#6	57	A	58	#12	20 / 1	FA SMOKE	200	E
		(5 HP-240V-1P)	/		59	B	60	#12	20 / 1	REC-TRUCK BAY	720	R
		SPARE	20 / 1		61	A	62	#12	20 / 1	REC-TRUCK BAY	540	R
M	1,590	VF-1/LV-1	20 / 1	#12	63	B	64	#12	20 / 1	REC-DATA/CATV	360	R
E	2,880	PUMP STATION	30 / 2	#8	65	A	66	#12	20 / 1	REC-OFFICE 102	1,260	R
		SEE NOTE #2	/		67	B	68	#12	20 / 1	REC-OFFICE103	1,260	R
E	240	DEHUMIDIFIER	20 / 1	#12	69	A	70	#12	20 / 1	REFRIGERATOR	900	R
		SPACE	/		71	B	72	#12	20 / 1	REC-KITCHEN	1,200	R
		SPACE	/		73	A	74	#12	20 / 1	OVH DOOR #4	1,130	M
		SPACE	/		75	B	76	#12	20 / 1	OVH DOOR #5	1,130	M
		SPACE	/		77	A	78	#12	20 / 1	OVH DOOR #6	1,130	M
		SPACE	/		79	B	80		20 / 1	SPARE		
		SPACE	/		81	A	82	#1	125 / 2	PANEL 'B'	18,479	P
		SPACE	/		83	B	84		/			

LOAD TYPE	CONNECT LOAD (KVA)	NEC CALC. DEMAND LOAD	LOAD (KVA)	POWER FACTOR	DEMAND LOAD (KW)	PHASE LOADING (KVA)	A = 63.90 B = 68.53
LIGHTING	0.0	125%	0.0	95%	0.0	PANEL CONNECTED PF	
REC 1st 10 KVA	10.0	100%	10.0	100%	10.0		99%
REMAINING	23.7	50%	11.9	100%	23.7	CONNECTED AMPACITY	
LARGEST MOTORS	1.6	125%	2.0	80%	1.3		552 A
REMAINING MOTORS	6.8	100%	6.8	80%	5.4	NEC DEMAND AMPACITY	
EQUIPMENT	32.9	100%	32.9	100%	32.9		504 A
HVAC	38.9	100%	38.9	100%	38.9	SPARE AMPACITY	
KITCHEN	0.0	100%	0.0	100%	0.0	16%	96 A
PANEL and/or TRANSF.	18.5	100%	18.5	100%	18.5		
TOTAL	132.4		121.0		130.8		600 A

NOTES:
1. PROVIDE 125A SUB FEED CIRCUIT BREAKER TO FEED PANEL 'B'.
2. CONFIRM PUMP STATION ALARM AND ELECTRICAL REQUIREMENTS PRIOR TO INSTALLATION.

PANEL: 'B'
GE, SQUARE D, EATON
AMPACITY = 125 AMPS
AIC RATING = 10,000 AMPS
VOLTAGE = 240 / 120V, 1PH, 3W

ISO-GRD [ ] NEUTRAL [X]
GROUND [X]
MAIN CB SIZE: ____ AMP
MLO [X] SIZE: 125 AMP
SURFACE [X] RECESSED [ ]

TYP	VA	DESCRIPTION	BKR	WIRE	#	PH	#	WIRE	BKR	DESCRIPTION	VA	TYP
R	1,500	ICE MACH.	20 / 1	#12	1	A	2	#12	20 / 1	LTG-TRUCK BAY	1,260	L
E	360	REC-CHARGERS	20 / 1	#12	3	B	4	#12	20 / 1	LTG-TRUCK BAY	895	L
E	360	REC-CHARGERS	20 / 1	#12	5	A	6	#12	20 / 1	LTG-EXTERIOR	672	L
R	1,200	REC-KITCHEN	20 / 1	#12	7	B	8	#12	20 / 1	LTG-INTERIOR	1,057	L
R	1,200	REC-KITCHEN	20 / 1	#12	9	A	10	#12	20 / 1	LTG- INTERIOR	1,187	L
E	500	REC-INTERCOM	20 / 1	#12	11	B	12	#10	20 / 1	LTG-POLES	392	L
		SPARE	20 / 1		13	A	14	#10	20 / 1	LTG-POLES	292	L
		SPARE	20 / 1		15	B	16	#10	20 / 1	LTG FLAG POLE	104	L
		SPARE	20 / 1		17	A	18		20 / 1	SPARE		
R	360	REC-EXERCISE	20 / 1	#12	19	B	20		20 / 1	SPARE		
R	360	REC-EXERCISE	20 / 1	#12	21	A	22		20 / 1	SPARE		
R	540	REC-EXERCISE	20 / 1	#12	23	B	24		20 / 1	SPARE		
R	1,200	REC-KITCHEN	20 / 1	#12	25	A	26		20 / 1	SPACE		
R	900	REC-BTHRMS,EXT	20 / 1	#12	27	B	28		/	SPACE		
R	900	REC-TRAINING	20 / 1	#12	29	A	30		/	SPACE		
R	900	REC-TRAINING	20 / 1	#12	31	B	32		/	SPACE		
R	540	REC TOILETS	20 / 1	#12	33	A	34		/	SPACE		
R	900	REC-BUNKRM.	20 / 1	#12	35	B	36		/	SPACE		
R	900	REC-BUNKRM.	20 / 1	#12	37	A	38		/	SPACE		
		SPACE	/		39	B	40		/	SPACE		
		SPACE	/		41	A	42		/	SPACE		

LOAD TYPE	CONNECT LOAD (KVA)	NEC CALC. DEMAND LOAD	LOAD (KVA)	POWER FACTOR	DEMAND LOAD (KVA)	PHASE LOADING (KVA)	A = 10.37 B = 8.11
LIGHTING	5.9	125%	7.3	95%	5.6	PANEL CONNECTED PF	
REC 1st 10 KVA	10.0	100%	10.0	100%	10.0		98%
REMAINING	1.4	50%	0.7	100%	1.4	CONNECTED AMPACITY	
LARGEST MOTORS	0.0	125%	0.0	80%	0.0		77 A
REMAINING MOTORS	0.0	100%	0.0	80%	0.0	NEC DEMAND AMPACITY	
EQUIPMENT	1.2	100%	1.2	100%	1.2		80 A
HVAC	0.0	100%	0.0	100%	0.0	SPARE AMPACITY	
KITCHEN	0.0	100%	0.0	100%	0.0	36%	45 A
PANEL and/or TRANSF.	0.0	100%	0.0	100%	0.0		
TOTAL	18.5		19.2		18.2		125 A

NOTES:

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SOUTH CAROLINA
RAST DALLERY ENGINEERS, PC
No. 3251
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
No. 17473
REGISTERED PROFESSIONAL ENGINEER
9/13/24
Richard M. Dallery

OWNER
HORRY COUNTY
THE INDEPENDENT REPUBLIC
S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

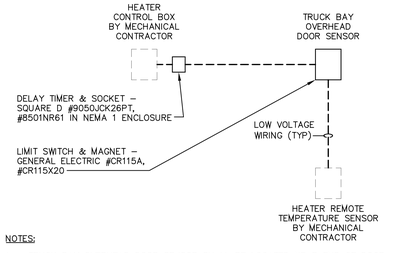
DATE: 8-28-24

SHEET TITLE
ELECTRICAL SCHEDULES, PANELS, AND RISERS

SHEET NO.
E4.0

RAST DALLERY ENGINEERS, PC
514 ALDER STREET, SUITE 4
MYRTLE BEACH, SC 29577
PHONE: (843) 232-0408

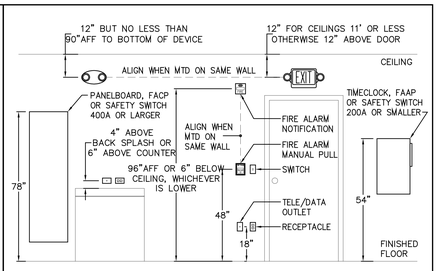
JOB NO: 24029



NOTES:

1. TRUCK BAY OVERHEAD DOOR SENSOR SHALL BE LOCATED NEAR END OF DOOR TRAVEL. TWO MINUTES AFTER RELAY HAS BEEN ACTIVATED, UNIT HEATER IN SAME BAY SHALL SHUT DOWN UNIT. PROVIDE SUBMITTAL FOR REVIEW PRIOR TO INSTALLATION.
2. COORDINATE DEVICE LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR AND OVERHEAD DOOR AND UNIT HEATER SUPPLIERS PRIOR TO EQUIPMENT ORDER.
3. LOW VOLTAGE CONTROL WIRING SHALL BE #18 AWG IN 1/2" CONDUIT.
4. ALTERNATE APPROVED MANUFACTURERS ARE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL SUBMITTED FOR REVIEW.

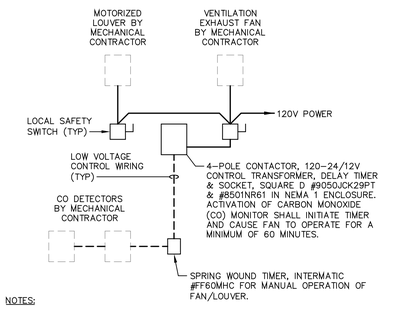
OVERHEAD DOOR/HEATER WIRING DETAIL
NO SCALE



NOTES:

1. HEIGHTS SHOWN ARE TYPICAL TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
2. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS SHALL GOVERN OVER THOSE SHOWN ABOVE.
3. OUTLETS ABOVE COUNTERS SHALL BE HORIZONTALLY MOUNTED 6" ABOVE COUNTER OR 4" ABOVE BACKSPLASH.
4. ALL DEVICES INDICATED TO BE INSTALLED AT DIFFERENT MOUNTING HEIGHTS AND LOCATED WITHIN ONE STUD SPACE FROM EACH OTHER SHALL ALIGN VERTICALLY ON THE SAME SIDE OF THE STUD.

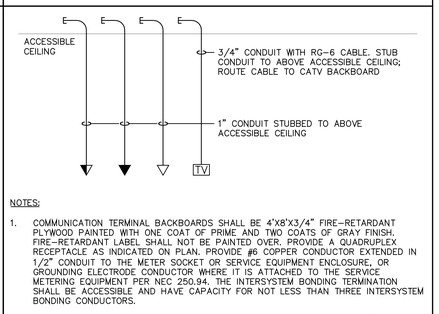
DEVICE MOUNTING HEIGHT DETAIL
NO SCALE



NOTES:

1. COORDINATE EQUIPMENT LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER.
2. LOW VOLTAGE CONTROL WIRING SHALL BE #18 AWG IN 1/2" CONDUIT.
3. ALTERNATE APPROVED MANUFACTURERS ARE SUBJECT TO COMPLIANCE WITH REQUIREMENTS AND SHALL SUBMITTED FOR REVIEW.

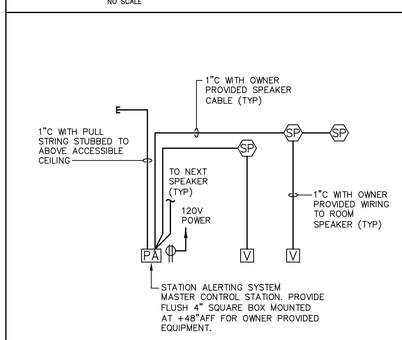
CO DETECTOR WIRING DETAIL
NO SCALE



NOTES:

1. COMMUNICATION TERMINAL BACKBOARDS SHALL BE 4'X8'X3/4" FIRE-RETARDANT PLYWOOD PAINTED WITH ONE COAT OF PRIME AND TWO COATS OF GRAY FINISH. FIRE-RETARDANT LABEL SHALL NOT BE PAINTED OVER. PROVIDE A QUADRUPLEX RECEPTACLE AS INDICATED ON PLAN. PROVIDE #6 COPPER CONDUCTOR EXTENDED IN 1/2" CONDUIT TO THE METER SOCKET OR SERVICE EQUIPMENT ENCLOSURE, OR GROUNDING ELECTRODE CONDUCTOR WHERE IT IS ATTACHED TO THE SERVICE METERING EQUIPMENT PER NEC 250.94. THE INTERSYSTEM BONDING TERMINATION SHALL BE ACCESSIBLE AND HAVE CAPACITY FOR NOT LESS THAN THREE INTERSYSTEM BONDING CONDUCTORS.
2. PROVIDE INSULATED BUSHINGS ON ALL CONDUIT ENDS AND PULL STRING WITH A RING ON EACH END IN ALL EMPTY CONDUITS.
3. PROVIDE 2" SLEEVES IN FIRE-RATED WALLS FOR ROUTING OF DATA CABLES TO DATA BACKBOARD.
4. PROVIDE (3) 2" CONDUITS AND (1) 4" CONDUIT FOR TELEPHONE, DATA, AND CATV CABLE INSTALLATION. CONTACT EACH UTILITY FOR ANY ADDITIONAL REQUIREMENTS.

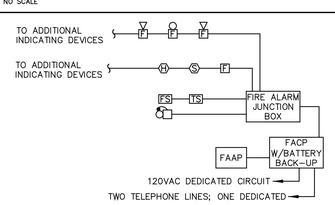
TELEPHONE/DATA/CATV SYSTEM DETAIL
NO SCALE



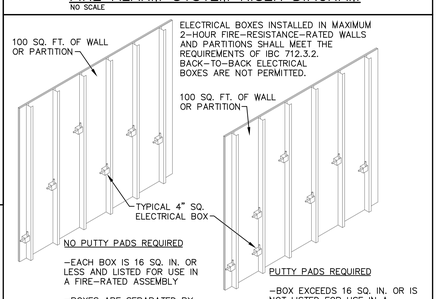
NOTES:

1. CONFIRM STATION ALERTING SYSTEM LOCATION WITH OWNER PRIOR TO ROUGH-IN INSTALLATION. (OFFICE 102 AS REFRENCED ON SHEET E2.0).

STATION ALERTING SYSTEM DETAIL
NO SCALE



FIRE ALARM SYSTEM RISER DIAGRAM
NO SCALE



FIRE-RATED WALL PENTRATION DETAIL
NO SCALE

ELECTRICAL MATERIALS & INSTALLATION:

1. FURNISH AND INSTALL ALL NECESSARY MATERIALS, TOOLS AND LABOR FOR A COMPLETE AND FULLY OPERABLE WIRING SYSTEM AS INDICATED OR REASONABLY IMPLIED. ALL OUTLETS SHALL BE FULLY CONNECTED TO SOURCES OF CURRENT SUPPLY AND LEFT READY FOR USE. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE NEW, FREE OF DEFECTS AND BE UL LISTED AND LABELED FOR THEIR INTENDED PURPOSE AND SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE N.E.C., LOCAL CODES AND ORDINANCES AND THE REQUIREMENTS OF THE UTILITY COMPANY. LOCAL CODES SHALL GOVERN IN THE EVENT OF A CONFLICT.
3. CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS, LICENSES, ETC. REQUIRED IN CONNECTION WITH THIS WORK.
4. ALL CONDUCTORS SHALL BE 75-DEGREE COPPER (THWN-THHN) INSTALLED IN METAL CONDUITS, RIGID OR EMT WITH COMPRESSION FITTINGS OR TYPES MC OR AC CABLES WHERE ALLOWED BY PREVAILING CODES, EXCEPT FOR PANEL HOMERUNS.
5. ALL PANEL HOMERUN CONDUCTORS SHALL BE INSTALLED IN METAL CONDUITS, RIGID, OR EMT WITH COMPRESSION FITTINGS. HOMERUNS SHALL BE THREE (3) CIRCUITS WHEREVER POSSIBLE, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
6. CONDUITS RUN UNDER FLOOR SLAB MAY BE SCHEDULE 40 PVC WITH RIGID METALLIC 90'S WHEN TURNED UP THROUGH SLAB.
7. UNLESS OTHERWISE INDICATED, ALL CONDUIT AND CONDUCTORS SHALL BE INSTALLED CONCEALED AND OUTLETS SHALL BE FLUSH MOUNTED IN WALLS OR CEILINGS. OUTLET BOXES SHALL BE SIZED AND INSTALLED PER THE N.E.C.
8. LUMINARIES SHALL BE COMPLETE WITH LAMPS, BALLASTS AND ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES.
9. PROVIDE A COPPER EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUIT AND FEEDER CONDUITS, SIZED PER N.E.C. TABLE 250.122. BOND ALL ELECTRICAL EQUIPMENT, OUTLET BOXES, GROUNDING TYPE RECEPTACLES, ETC., IN ACCORDANCE WITH N.E.C. ARTICLE 250.
10. CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS TO MECHANICAL EQUIPMENT.
11. CONTRACTOR SHALL WARRANTY ALL NEW EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OR FIRST BENEFICIAL USE BY THE OWNER, WHICHEVER COMES FIRST.
12. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE AND COORDINATE THE EXACT SCOPE OF WORK. NO CREDIT WILL BE GIVEN FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS.
13. CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST CLARIFICATION OF ITEMS IN QUESTION ON THE ELECTRICAL DRAWINGS ASSOCIATED WITH THIS PROJECT PRIOR TO BID. NO CREDIT WILL BE GIVEN FOR ITEMS THAT ARE LOGICALLY REQUIRED, BUT NOT DETAILED.
14. DO NOT DIMENSION FROM THESE DRAWINGS. SEE ARCHITECTURAL DRAWINGS OR OWNER FOR EXACT LOCATIONS OF DEVICES AND LUMINARIES. DETAILS ON THESE DRAWINGS ARE FOR WIRING INFORMATION ONLY.
15. PANEL AND DISCONNECT SWITCH LOCATIONS ARE DIAGRAMMATIC AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'-3", MAXIMUM, TO TOP OF CABINET. MAINTAIN N.E.C. WORK SPACE REQUIREMENTS FROM WALLS, CEILINGS AND OTHER ELECTRICAL AND NON-ELECTRICAL EQUIPMENT APPURTENANCES, ETC.
16. COORDINATE LUMINARIES LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC. TO AVOID CONFLICTS.
17. CONTRACTOR SHALL PROVIDE FIRE CAULKING, OR OTHER APPROVED FIRESTOPPING METHOD, ON EACH SIDE OF ALL FIRE RATED PARTITIONS.
18. CONTRACTOR SHALL VERIFY HEATING VENTILATING AND AIR CONDITIONING (HVAC) POWER CONDUCTORS AND CIRCUIT BREAKER SIZING WITH THE HVAC CONTRACTOR PRIOR TO ROUGH-IN AND PLACING FINAL ORDER FOR ELECTRICAL SWITCHGEAR.
19. CONTRACTOR SHALL MEET INSTALLATION CRITERIA FOR SEISMIC REQUIREMENTS IN PROJECT LOCATION.
20. SUBMIT SHOP DRAWINGS AND CATALOG DATA FOR PANELBOARDS, DISCONNECTS, LIGHT FIXTURES AND WIRING DEVICES. MARKUP SHOP DRAWINGS AND DATA TO INDICATE SPECIFIC EQUIPMENT BEING USED, OPTIONS, FEATURES PROVIDED AND LABLES USED IN THE CONSTRUCTION DOCUMENTS.
21. ALL 120V, SINGLE PHASE, 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNITS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY THE NEC ARTICLE 210.12.
22. ALL 125V, SINGLE PHASE, 15 AND 20 AMP RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED IN ARTICLE 210.8(A)-(D) OF THE NEC SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION.
23. IN ALL AREAS SPECIFIED IN THE NEC ARTICLE 210.52, ALL 125V, 15 AND 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES AS REQUIRED BY THE NEC ARTICLE 406.12(A)-(C).
24. RECEPTACLE OUTLET SPACING SHALL COMPLY WITH NEC 210.52.
25. RECEPTACLES INSTALLED IN DAMP AND WET LOCATIONS SHALL BE A LISTED WEATHER-RESISTANT (WR) TYPE RECEPTACLE AS REQUIRED BY THE NEC ARTICLE 406.9(A)(B).

ELECTRICAL LEGEND
(Not all symbols listed below are used on these drawings)

SYMBOL	DESCRIPTION
POWER / GENERAL	
A–2	FEEDER OR BRANCH CIRCUIT CONDUIT CONCEALED IN WALLS, CEILING OR OTHER BUILDING ELEMENTS. DASHED LINETYPE DENOTES UNDER FLOOR SLAB OR BELOW GRADE. ARROW DENOTES HOME RUN TO PANEL. MULTI-ARROW HOMERUNS DO NOT INDICATE THE USE OF MULTI-WIRE. SHARED NEUTRAL CIRCUITS BUT ARE SHOWN FOR CONVENIENCE OF INDICATING CIRCUIT CONNECTIONS ON THE PLAN. SHARED NEUTRALS ARE NOT ALLOWED.
M	ELECTRIC EXHAUST FAN OR OTHER MOTOR-OPERATED MECHANICAL EQUIPMENT. CONNECT ELECTRICALLY COMPLETE.
EL	COMBINATION ELECTRIC EXHAUST FAN AND LIGHT. CONNECT ELECTRICALLY COMPLETE.
S_M	MANUAL SWITCH. SINGLE POLE, AC SWITCH, 20A-125/277V. HORSEPOWER RATED FOR MOTOR LOADS.
	ENCLOSED SAFETY SWITCH. GENERAL DUTY, NEMA 1 (NEMA 3R – OUTDOOR) ENCLOSURE, UON. IF INDICATED, PROVIDE FUSES SIZED PER NEC AND EQUIPMENT NAMEPLATE. MF=MANUACTURER FUSE SIZE, AF=FUSE SIZE(35AF).
	MOTOR STARTER, NEMA SIZE AND TYPE PER NEC AND EQUIPMENT NAMEPLATE.
	PUSH BUTTON.
	JUNCTION BOX, WALL OR CEILING MOUNTED, OR EQUIPMENT JUNCTION BOX, WITH COVER. MINIMUM SIZE: 4"x4"x1-1/2". SIZE PER NEC.
J	JUNCTION BOX, FLOOR MOUNTED, WITH COVERPLATE. MINIMUM SIZE: 4"x4"x1-1/2". SIZE PER NEC.
	DUPLEX RECEPTACLE, GROUNDING TYPE, NEMA 5-20R. 'GFI' DENOTES INTEGRAL GROUND FAULT INTERRUPTER, 'WP' DENOTES WHILE-IN-USE WEATHERPROOF COVER. 'WR' WATER RESISTANT. 'TR' TAMPER RESISTANT.
	DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER OR WALL HUNG LAVATORY.
	DUPLEX RECEPTACLE, CEILING MOUNTED.
	DOUBLE DUPLEX RECEPTACLE WITH QUADRUPLEX PLATE.
	DUPLEX RECEPTACLE, FLOOR MOUNTED. STEEL CITY 640 SERIES. P64-CP CARPET FLANGE AND P64-DS DEVICE COVERPLATE. GANG BOXES WITH COMMON FLANGE WHERE APPLICABLE.
	DOUBLE DUPLEX RECEPTACLE, FLOOR MOUNTED.
FB4	MULTISERVICE FLOOR BOX. WIREMOLD RFB SERIES WITH BRASS FLANGED COVER WITH INSERT AREA FOR CARPET OR TILE CUTOUT AND DEVICE COVERPLATES. NUMBER DENOTES QUANTITY OF COMPARTMENTS.
EWC	DUPLEX RECEPTACLE, GFI TYPE, MOUNTED BEHIND ELECTRIC WATER COOLER ENCLOSURE. COORDINATE ROUGH-IN HEIGHT.
	DUPLEX RECEPTACLE, SPLIT WIRED FOR TWO CIRCUIT OPERATION. SWITCHED RECEPTACLE ON TOP.
	SPECIAL OUTLET, NEMA SIZE AS INDICATED ON DRAWING OR EQUIPMENT NAMEPLATE.
	DRYER OUTLET, NEMA 6-30R, MOUNT AT +48" AFF TO CENTER OF BOX.
	RANGE OUTLET, NEMA 6-50R, MOUNT AT +18" AFF TO CENTER OF BOX.
	CEILING FAN. SEE FIXTURE SCHEDULE. CONNECT ELECTRICALLY COMPLETE.
	ELECTRICAL PANELBOARD. SEE SCHEDULE AND RISER DIAGRAM.
SPD	SURGE PROTECTION DEVICE. CLASS C3, UL LISTED, 120,000A MIN. PER MODE. INCLUDE DISCONNECT AND OCP SIZE PER EQUIPMENT NAMEPLATE.
TELEPHONE / DATA	
	TERMINAL BACKBOARD. SIZE AS SHOWN ON DWGS. 'TTB' DENOTES TELEPHONE, 'DTB' DENOTES DATA, 'CATV' DENOTES CABLE TELEVISION. SEE DETAIL.
	TELEPHONE OUTLET WITH COVERPLATE. CROSSHATCH DENOTES OUTLET MOUNTED ABOVE COUNTER. SEE DETAIL.
	DATA OUTLET. CROSSHATCH DENOTES OUTLET MOUNTED ABOVE COUNTER. SEE DETAIL.
	COMBINATION TELEPHONE/DATA OUTLET. CROSSHATCH DENOTES OUTLET MOUNTED ABOVE COUNTER. SEE DETAIL.
	DATA OUTLET, CEILING MOUNTED.
	TELEPHONE OUTLET, FLOOR MOUNTED. STEEL CITY 640 SERIES WITH P64-CP CARPET FLANGE AND P64-GFCI DEVICE COVERPLATE. MIN. 1" KO'S.
	TELEPHONE OUTLET FOR DATA, FLOOR MOUNTED.
	TELEPHONE OUTLET FOR COMBINATION TELEPHONE/DATA, FLOOR MOUNTED.
AUDIO / VISUAL EQUIPMENT	
TV	CABLE TELEVISION OUTLET WITH COVER PLATE, WALL MOUNT AT 18" AFF TO CENTER OF BOX UON. SEE DETAIL.
PA	PUBLIC ADDRESS OR SOUND SYSTEM EQUIPMENT.
SP	SPEAKER OUTLET, CEILING MOUNTED WITH BAFFLE, BACK BOX AND MOUNTING ACCESSORIES. PROVIDE 1/2"C. WITH SPEAKER CABLE TO SOUND EQUIPMENT.
M_F	MICROPHONE OUTLET JACK. 'F' DENOTES FLOOR MOUNTED.
I	INTERCOM OUTLET.
V	VOLUME CONTROL OUTLET.
	CAMERA OUTLET. 'WP' DENOTES WEATHERPROOF JUNCTION BOX.
CR	CARD READER. 'WP' DENOTES WEATHERPROOF JUNCTION BOX.
H	DOOR CONTACT.

SYMBOL	DESCRIPTION
LIGHTING	
	LINEAR FLUORESCENT LUMINAIRE, SURFACE OR RECESSED. UPPER CASE SUBSCRIPT REFER TO FIXTURE SCHEDULE, LOWER CASE DENOTES SWITCHING.
	LINEAR FLUORESCENT LUMINAIRE WITH EMERGENCY BATTERY OR CONNECTED AS NIGHTLIGHT. CONNECT TO CONTINUOUSLY ENERGIZED (UNSWITCHED) CIRCUIT, TO OPERATE ONE OR MORE LAMPS DURING NORMAL POWER FAILURE.
	LINEAR FLUORESCENT LUMINAIRE, STRIP OR UNDERCOUNTER MOUNT.
	LINEAR FLUORESCENT LUMINAIRE, WALL MOUNTED OVER MIRROR OR AS INDICATED ON DRAWING.
	WALL MOUNTED LUMINAIRE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL SECTIONS AND DETAILS.
	CEILING MOUNTED LUMINAIRE, SURFACE OR RECESSED.
	CEILING MOUNTED LUMINAIRE WITH WALL WASH REFLECTOR. SHADING DENOTES DIRECTION OF LIGHT.
	PENDANT MOUNTED LUMINAIRE. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL SECTIONS AND DETAILS.
	TRACK LUMINAIRE COMPLETE WITH ADJUSTABLE TRACK HEADS AND ALL REQUIRED ACCESSORIES FOR A OPERATIONAL SYSTEM.
	FLOOD LUMINAIRE, MOUNT AND AIM AS INDICATED ON THE DRAWING OR AS DIRECTED BY THE OWNER OR ARCHITECT.
$S\ S_3\ S_4$	SINGLE POLE SWITCH, 20A-125/277V. GANG SWITCHES UNDER COMMON PLATE WHERE APPLICABLE. '3' DENOTES 3-WAY, '4' DENOTES 4-WAY. LOWER CASE SUBSCRIPT DENOTES SWITCHING.
S_D	DIMMER SWITCH, ON/OFF TOGGLE WITH PRESET SLIDE DIMMER, SIZED TO MATCH TYPE AND LOAD BEING DIMMED. FOR INCANDESCENT: P&S CD703P (700W), CD1103P (1100W); FOR FLUORESCENT (FOR USE WITH 3-WIRE ELECTRONIC DIMMING BALLASTS): P&S CD3FB163P (16A-120V), CD5FB103P277 (10A-277V).
$S_{OS}\ S_{OS2}$	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL MOUNTED, 180° WITH ADJUSTABLE TIME DELAY TO OFF, MANUAL CONTROL, AND LIGHT SENSOR, SIZED TO MATCH AREA BEING CONTROLLED, WATTSTOPPER DW-100 (300sf). '2' DENOTES DUAL RELAY, WATTSTOPPER DW-200.
OS	OCCUPANCY SENSOR, DUAL TECHNOLOGY, CEILING MOUNTED, 360° WITH ADJUSTABLE TIME DELAY TO OFF, SIZED TO MATCH AREA BEING CONTROLLED, WATTSTOPPER DT-355 (1000sf).
PC	PHOTO-ELECTRIC CELL, BOX MOUNTED, 1800W, ADJUSTABLE SENSITIVITY, 120V TYPE UON. MOUNT UNDER SOFFIT AWAY FROM INFLUENCE OF LIGHTS.
TC	TIME CLOCK FOR LIGHTING CONTROL. 24-HOUR WITH DIGITAL DIAL AND PHOTO-ELECTRIC CONTROL FEATURE. 10-HOUR BATTERY OR SPRING BACK-UP.
LC	LIGHTING CONTACTOR, 30A-4P LIGHTING CONTACTOR WITH 120V COIL IN NEMA-1 ENCLOSURE.
	EMERGENCY LIGHTING UNIT WITH BATTERY, SURFACE MOUNT. CONNECT TO CONTINUOUSLY ENERGIZED (UNSWITCHED) CIRCUIT.
	EXIT SIGN WITH BATTERY, WALL OR CEILING MOUNT, DIRECTIONAL ARROWS/FACES AS INDICATED. CONNECT TO CONTINUOUSLY ENERGIZED (UNSWITCHED) CIRCUIT.
	COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT WITH BATTERY, WALL OR CEILING MOUNT. CONNECT TO CONTINUOUSLY ENERGIZED (UNSWITCHED) CIRCUIT.
	COMBINATION EXIT SIGN/EMERGENCY LIGHTING UNIT AS ABOVE WITH EXTERIOR REMOTE HEAD. CONNECT TO CONTINUOUSLY ENERGIZED (UNSWITCHED) CIRCUIT.
FIRE ALARM	
FACP	FIRE ALARM CONTROL PANEL WITH BATTERY BACKUP, SURFACE MOUNT.
FAAP	FIRE ALARM ANNUNCIATOR PANEL, FLUSH MOUNT.
F	FIRE ALARM MANUAL PULL STATION, DUAL-ACTION TYPE.
F	FIRE ALARM STROBE. 15 CANDELA UON.
F	FIRE ALARM HORN.
F	FIRE ALARM COMBINATION HORN/STROBE. 15 CANDELA UON.
FS	FIRE ALARM COMBINATION SPEAKER/STROBE. 15 CANDELA UON.
	FIRE ALARM BELL. PROVIDE WP JUNCTION BOX MOUNTED AT 10'-0" AFG.
S	FIRE ALARM SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED.
D	FIRE ALARM DUCT SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SAMPLING TUBES TO SUIT, AND REMOTE INDICATOR LAMP FLUSH MOUNT IN CEILING OR OTHER READILY VISIBLE LOCATION.
H	FIRE ALARM HEAT DETECTOR, FIXED TEMPERTURE/RATE OF RISE, CEILING MOUNTED.
B	FIRE ALARM BEAM DETECTOR, WALL MOUNTED.
TS FS	FIRE ALARM MONITOR MODULE, 'TS' DENOTES TAMPER SWITCH, 'FS' DENOTES FLOW SWITCH.
CM MM	FIRE ALARM MODULE. 'CM' DENOTES CONTROL MODULE, 'MM' DENOTES MONITOR MODULE.
	FIRE ALARM MAGNETIC DOOR HOLDER. CONNECT ELECTRICALLY COMPLETE TO FIRE ALARM SYSTEM.
	FIREFIGHTER'S TWO-WAY TELEPHONE COMMUNICATION SERVICE.

ABBREVIATIONS

A	AMPERES	EM	EMERGENCY	MCB	MAIN CIRCUIT BREAKER	(RL)	RELOCATED
AC	ABOVE COUNTER	EP	EXPOSION PROOF	MIN	MINIMUM	SPD	SURGE PROTECTION DEVICE
AFF	ABOVE FINISHED FLOOR	EPO	EMERGENCY POWER OFF	MLO	MAIN LUGS ONLY	TP	TAMPER PROOF
AFG	ABOVE FINISHED GRADE	EWC	ELECTRIC WATER COOLER	MTS	MANUAL TRANSFER SWITCH	TYP	TYPICAL
ATS	AUTOMATIC TRANSFER SWITCH	FA	FIRE ALARM	NC	NORMALLY CLOSED	UG	UNDERGROUND
BFG	BELOW FINISHED GRADE	G, GND	GROUND	NIC	NOT IN CONTRACT	UON	UNLESS OTHERWISE NOTED
C	CONDUIT	GAP	GENERATOR ANNUNCIATOR PANEL	(N)	NEW	UPS	UNINTERRUPTABLE POWER SUPPLY
CATV	CABLE TELEVISION	GFI	GROUND FAULT INTERRUPTING	NO	NORMALLY OPEN	V	VOLTS
CB	CIRCUIT BREAKER	IG	ISOLATED GROUND	NTS	NOT TO SCALE	VFD	VARIABLE FREQUENCY DRIVE
CCTV	CLOSED CIRCUIT TELEVISION	KO	KNOCK OUT	OC	ON CENTER	WP	WEATHER PROOF
(E)	EXISTING	MAX	MAXIMUM	PB	PULL BOX	T, XFMR	TRANSFORMER

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SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — RAST DALLERY ENGINEERS, PC — No. 3251

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 17473 — 9/13/24 — ROBERT J. DALLERY

OWNER

HORRY COUNTY — THE INDEPENDENT REPUBLIC — S.C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

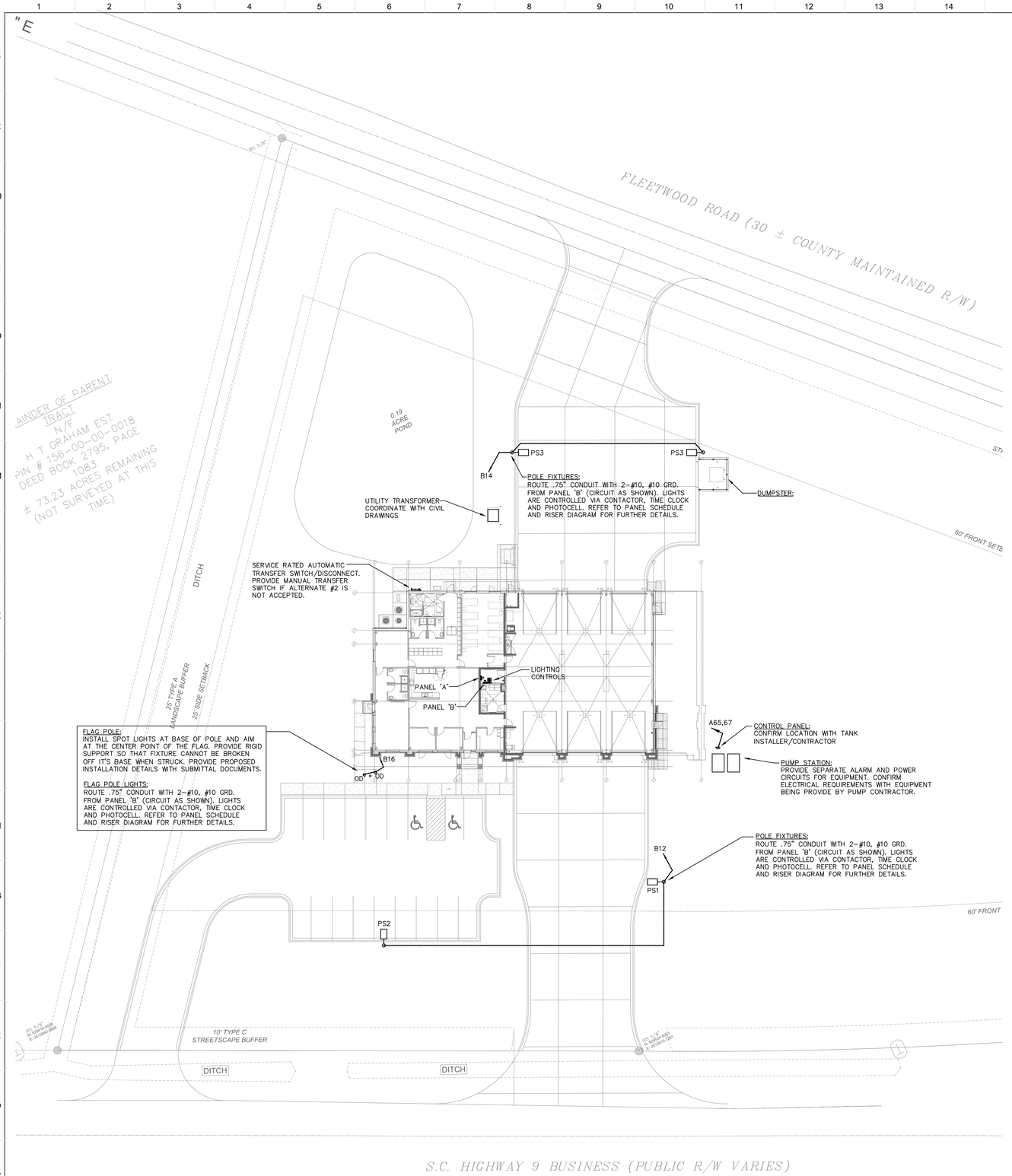
DATE: 8-28-24

SHEET TITLE
ELECTRICAL LEGEND, NOTES AND DETAILS

SHEET NO.
E5.0

RAST DALLERY ENGINEERS, PC
514 ALDER STREET, SUITE 4
MYRTLE BEACH, SC 29577
PHONE: (843) 232-0408

JOB NO: 24029



TRUE NORTH PLAN NORTH

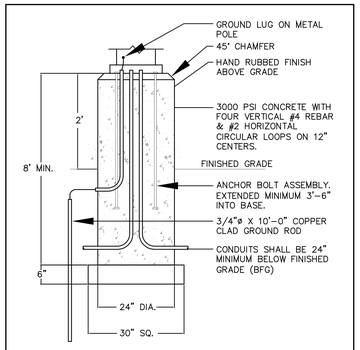
1 SITE PLAN
ES1 SCALE: 1"=20'-0" (9,000 SF)

POLE LIGHT FIXTURE SCHEDULE:

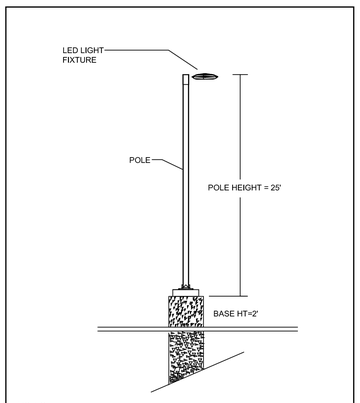
PS1	AREA LIGHT, 196W, 28,000 LUMENS, UNIVERSAL VOLTAGE, 4000K, TYPE 3 DISTRIBUTION, BRONZE FINISH WITH POLE MOUNTING BRACKET. LP: VIEPOINT SERIES, MODEL VAM-28L-U-40-T3-PMB-BRZ
PS2	AREA LIGHT, 196W, 28,000 LUMENS, UNIVERSAL VOLTAGE, 4000K, TYPE 4 DISTRIBUTION, BRONZE FINISH WITH POLE MOUNTING BRACKET. LP: VIEWPOINT SERIES, MODEL VAM-28L-U-40-T4-PMB-BRZ
PS3	AREA LIGHT, 146W, 21,000 LUMENS, UNIVERSAL VOLTAGE, 4000K, TYPE 3 DISTRIBUTION, BRONZE FINISH WITH POLE MOUNTING BRACKET. LP: VIEWPOINT SERIES, MODEL VAM-21L-U-40-T3-PMB-BRZ
POLE	25' ROUND STRAIGHT STEEL POLE DARK BRONZE MATTE FINISH HAPCO: MODEL RSS-25-B-4-4-BM
OD	FLAG POLE SPOT LIGHT, 52W, 4000K. LP: MODEL #CFM-52W-U-40-N76/M-BRZ OR EQUAL

NOTE:
LIGHT FIXTURES SHALL BE FULL-CUTOFF AND MEET ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) CRITERIA. LIGHTING SHALL BE AIMED STRAIGHT DOWN (SECTION 510).

LIGHTING SHALL NOT PROVIDE ILLUMINATION THAT EXCEEDS 1 FOOT-CANDLE ACROSS ANY RESIDENTIAL PROPERTY LINE.

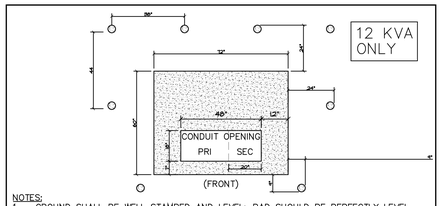


POLE BASE DETAIL
NO SCALE



NOTES:
1. FIXTURE MOUNTING HEIGHT: AS SHOWN
2. POLES SHALL MEET 150 MPH SUSTAINED WINDS

POLE DETAIL
NO SCALE



NOTES:
1. GROUND SHALL BE WELL STAMPED AND LEVEL; PAD SHOULD BE PERFECTLY LEVEL WITH A SMOOTH FINISH ON TOP. OPENING MUST BE LEFT OPEN.
2. MINIMUM OF 6" THICK, 1/2" REBAR REINFORCED; MINIMUM 6" AFG.
3. IF LOCATED IN AREA SUBJECTED TO VEHICULAR TRAFFIC, PROTECT BY ONE OF THE FOLLOWING METHODS:
   A. ONLY ON SIDES EXPOSED TO VEHICLES BY POST AS SHOWN. MINIMUM 4" CONDUIT, CONCRETE FILLED, EMBEDDED 18" DEEP IN CONCRETE, EXTENDING 3'-0" AFG.
   B. BY CURB OR WHEELSTOP 4'-0" AWAY FROM TRANSFORMER.
   C. IF NO CURB OR WHEELSTOPS ARE PRESENT, PAD MUST BE 5'-0" FROM PAVEMENT.
4. SHOULD BE MINIMUM OF 3'-0" FROM BUILDING WALL OR PLANTS ON SIDES OR BACK WITH A 10'-0" MINIMUM CLEAR AREA IN FRONT (LOCK SIDE).
5. NOT TO BE LOCATED IN AN ENCLOSED AREA OR AREA INACCESSIBLE TO LINE TRUCK.
6. IF SECONDARY IS PULLED BEFORE TRANSFORMER IS INSTALLED, APPROXIMATELY 6'-0" OF SECONDARY LEADS SHOULD BE LEFT ABOVE LEVEL OF PAD (VARIES WITH TRANSFOMER HEIGHT).
7. CONDUIT SHOULD BE FLUSH WITH TOP SURFACE OF PAD.
8. EXCEPTIONS FOR UNUSUAL CONDITIONS MUST HAVE PRIOR SANTEE COOPER APPROVAL.

PAD MOUNT TRANSFORMER DETAIL (75-225kVA)
NO SCALE

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S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

SHEET TITLE
SITE PLAN - ELECTRICAL

SHEET NO.
ES.1

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TRUE NORTH

PLAN NORTH

1 ES2 **SITE PHOTOMETRICS**

SCALE: 1"=20'-0" (9,000 SF)

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SHEET TITLE
SITE PLAN - PHOTOMETRICS

SHEET NO.
ES.2

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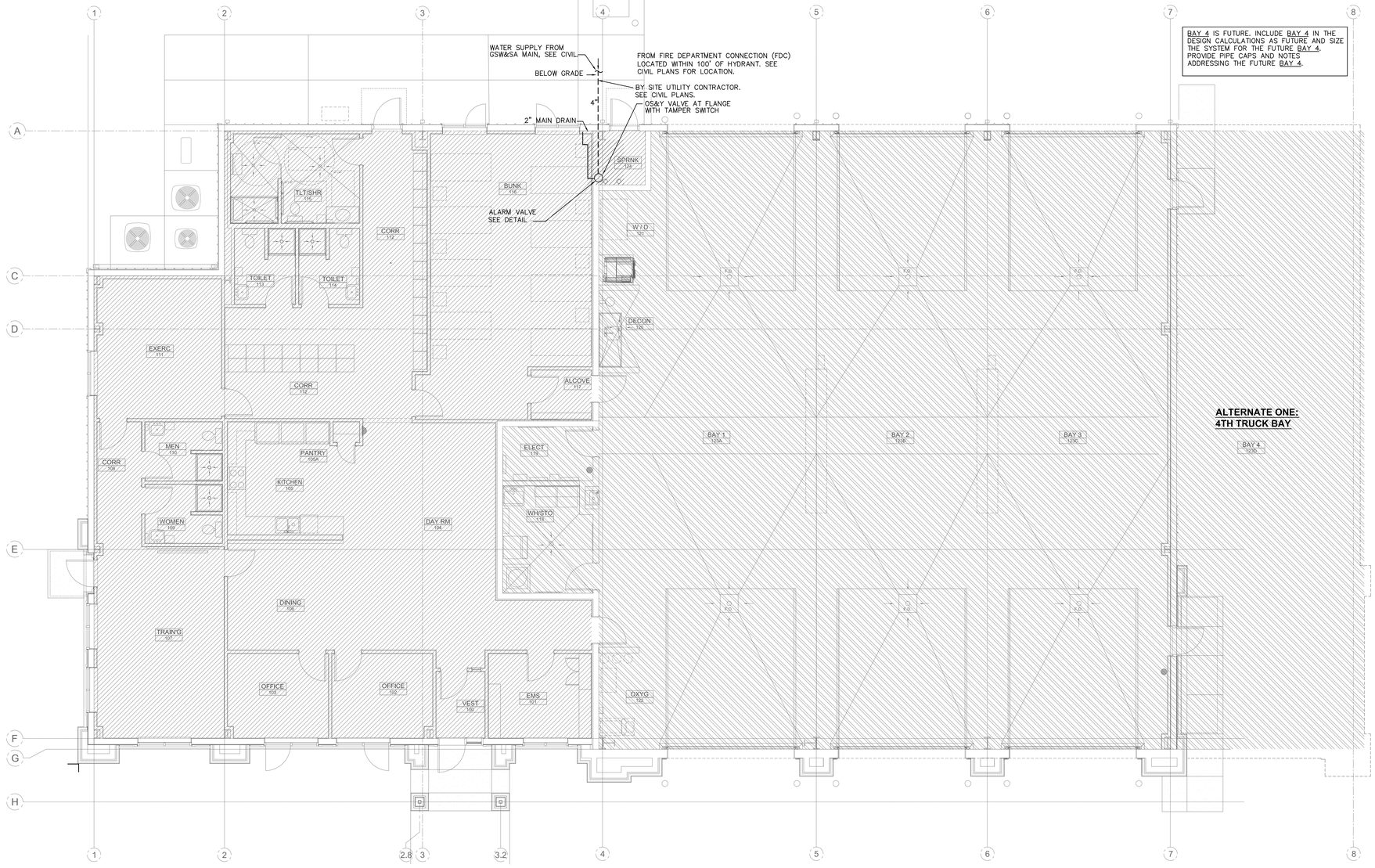
JOB NO: 24029

FIRE PROTECTION COVERAGE LEGEND

- LIGHT HAZARD
  0.10 gpm/ sq.ft. DENSITY
- ORDINARY GROUP 1 HAZARD
  0.15 gpm/ sq.ft. DENSITY

GENERAL NOTES:

1. REFER TO SHEET FP3.0 FOR SCHEDULES, NOTES, AND DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED WALLS/CEILINGS/ASSEMBLIES AND SMOKE BARRIERS. FIRE PENETRATIONS WILL BE REQUIRED, AS APPLICABLE PER THE INTERNATIONAL BUILDING CODE/INTERNATIONAL FIRE PROTECTION CODE.
3. INSTALLATION OF ALL EQUIPMENT AND PIPING IN SPACE BETWEEN/THROUGH JOIST/TRUSS SHALL BE COORDINATED WITH EXISTING/NEW STRUCTURE/TRUSSES DESIGN. COORDINATE WITH ARCHITECT/STRUCTURAL ENGINEER PRIOR TO ALTERING/CUTTING STRUCTURAL COMPONENTS.
4. CONTRACTOR SHALL OBTAIN ALL LICENSEES AND PERMITS REQUIRED FOR THIS PROJECT.
5. PROVIDE COVERAGE PER 2016 EDITION OF NFPA 13 FROM NEW WET SYSTEM ALARM VALVE. PROVIDE PENDANT QUICK RESPONSE CHROME HEADS AT ALL FINISHED CEILING, WITH UPRIGHT BRASS HEADS IN AREAS WITHOUT CEILINGS.



PLAN NORTH / TRUE NORTH

1 / FP1.0 **FLOOR PLAN**
SCALE: 3/16"=1'-0"

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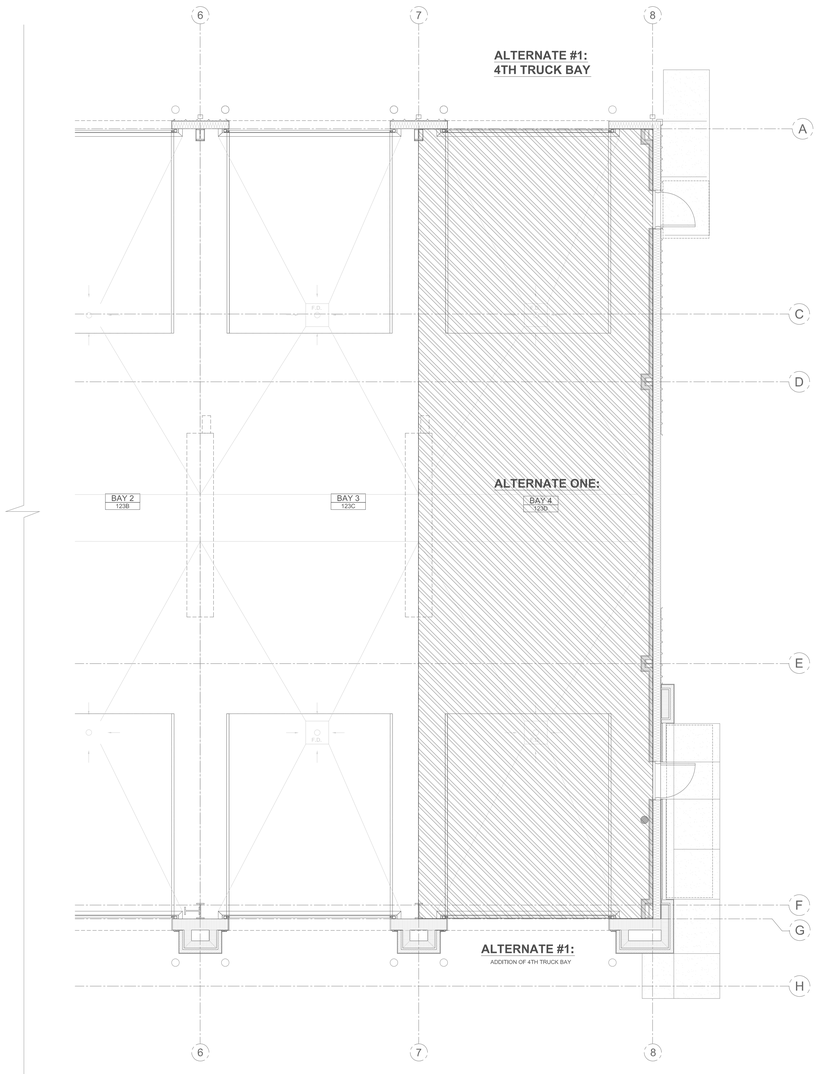
SHEET TITLE
FLOOR PLAN

SHEET NO.
FP1.0

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ALTERNATE ONE:

1. ADD ALTERNATE NUMBER ONE.
CONTRACTOR SHALL STATE PRICE DIFFERENCE WHICH WOULD REPRESENT ALL LABOR AND MATERIALS REQUIRED TO ADD A FOURTH INTERIOR TRUCK BAY AS INDICATED IN THE CONTRACT DOCUMENTS. IF THIS ALTERNATE IS ACCEPTED, IT WILL INCLUDE ALL WORK REQUIRED IN THE AREAS OF ARCHITECTURAL, CIVIL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRIC AS INDICATED ON THESE CONTRACT DOCUMENTS. IF ALTERNATE IS NOT ACCEPTED CONTRACTOR SHALL ONLY PROVIDE AND PREPARE BUILDING PAD FOR THE FOURTH TRUCK BAY AREA AS INDICATED ON THE DOCUMENTS.



1 FP2.0 **ALTERNATE #1 - 4TH TRUCK BAY**
SCALE: 1/4"=1'-0"

FIRE PROTECTION COVERAGE LEGEND

- LIGHT HAZARD
  0.10 gpm/ sq.ft. DENSITY
- ORDINARY GROUP 1 HAZARD
  0.15 gpm/ sq.ft. DENSITY

GENERAL NOTES:

1. REFER TO SHEET FP3.0 FOR SCHEDULES, NOTES, AND DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE FIRE RATED WALLS/CEILINGS/ASSEMBLIES AND SMOKE BARRIERS. FIRE PENETRATIONS WILL BE REQUIRED, AS APPLICABLE PER THE INTERNATIONAL BUILDING CODE/INTERNATIONAL FIRE PROTECTION CODE.
3. INSTALLATION OF ALL EQUIPMENT AND PIPING IN SPACE BETWEEN/THROUGH JOIST/TRUSS SHALL BE COORDINATED WITH EXISTING/NEW STRUCTURE/TRUSSES DESIGN. COORDINATE WITH ARCHITECT/STRUCTURAL ENGINEER PRIOR TO ALTERING/CUTTING STRUCTURAL COMPONENTS.
4. CONTRACTOR SHALL OBTAIN ALL LICENSEES AND PERMITS REQUIRED FOR THIS PROJECT.
5. PROVIDE COVERAGE PER 2016 EDITION OF NFPA 13 FROM NEW WET SYSTEM ALARM VALVE. PROVIDE PENDANT QUICK RESPONSE CHROME HEADS AT ALL FINISHED CEILING, WITH UPRIGHT BRASS HEADS IN AREAS WITHOUT CEILINGS.

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DRAWN: CHECKED:

DATE: 8-28-24

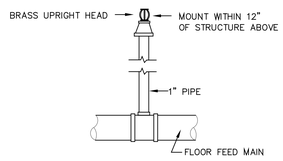
SHEET TITLE
ALTERNATE #1
FLOOR PLAN

SHEET NO.
FP2.0

RAST DALLERY ENGINEERS, PC
514 ALDER STREET, SUITE 4
MYRTLE BEACH, SC 29577
PHONE: (843) 232-0408

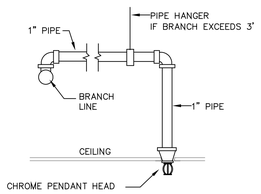
JOB NO: 24029

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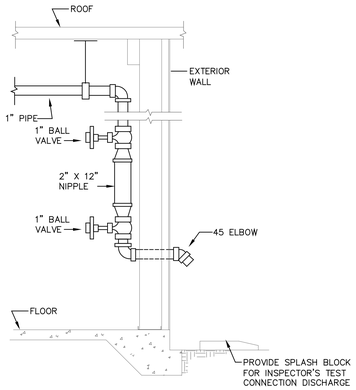
UPRIGHT SPRINKLER HEAD DETAIL

NOT TO SCALE



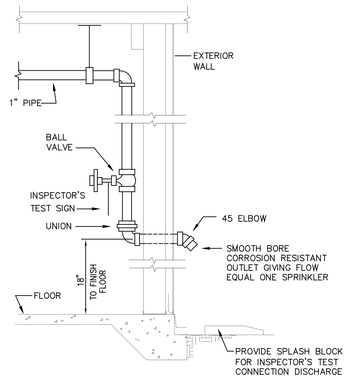
PENDANT SPRINKLER HEAD DETAIL

NOT TO SCALE



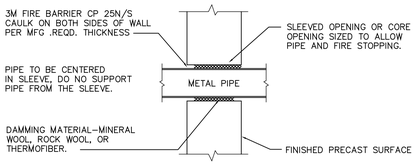
WET AUXILIARY DRAIN

NOT TO SCALE



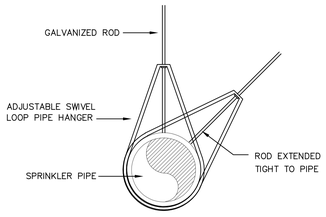
WET INSPECTOR'S TEST CONNECTION

NOT TO SCALE



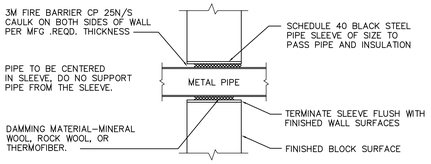
FIRE STOPPING, BARE PIPE DETAIL

NOT TO SCALE



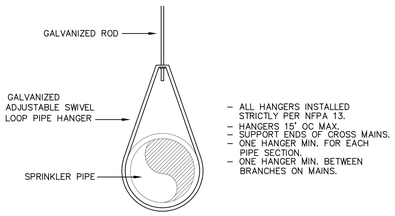
TYPICAL END OF LINE HANGER DETAIL

NOT TO SCALE



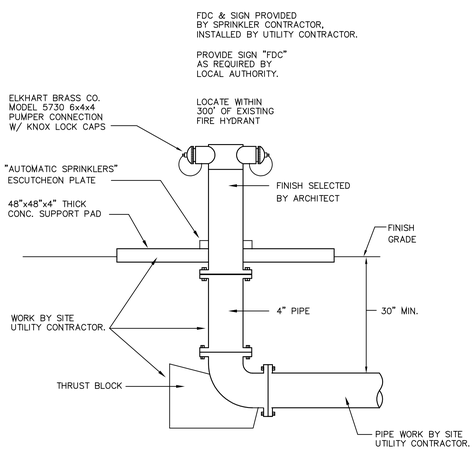
FIRE STOPPING, BARE PIPE DETAIL

NOT TO SCALE



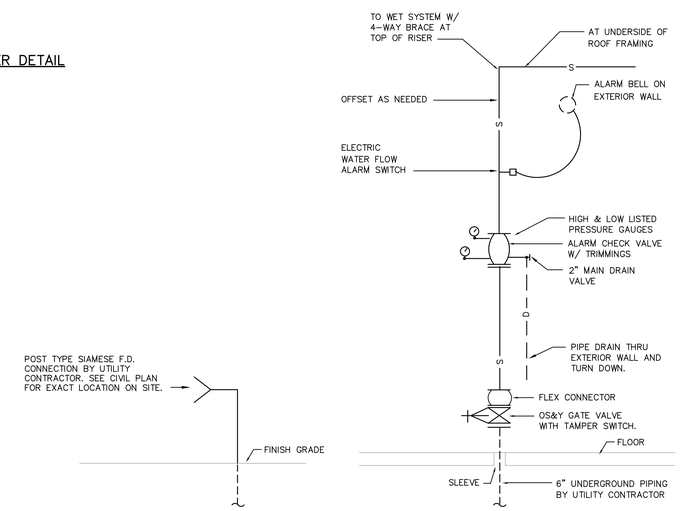
TYPICAL PIPE HANGER DETAIL

NOT TO SCALE



SIAMESE FIRE DEPT. CONNECTION

NOT TO SCALE



WET PIPE RISER DETAIL

NOT TO SCALE

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	UNDERGROUND FIRE LINE, SEE CIVIL
	FIRE PROTECTION PIPING – WET PIPE
D	FIRE PROTECTION PIPING – DRY PIPE
SD	FIRE PROTECTION PIPING – DRAIN LINE
TS	OS&Y GATE VALVE W/ TAMPER SWITCH
TS	ZONE CONTROL VALVE W/ TAMPER SWITCH
	CHECK VALVE
	BALL VALVE
TS	TAMPER SWITCH
FW	FLOW SWITCH
PS	PRESSURE SWITCH

FIRE PROTECTION NOTES

1. SEE SPECIFICATIONS FOR COMPLETE DESCRIPTION OF WORK AND MATERIALS. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL ROUGH FROM ARCHITECTURAL, STRUCTURAL, AND PRECAST MANUFACTURERS APPROVED SHOP DRAWINGS. SEE LARGE SCALE PLANS AND BUILDING SECTIONS.

2. COORDINATE WORK WITH OTHER CONTRACTORS AND ARRANGE SPRINKLER PIPING TO AVOID INTERFERENCE WITH THE WORK OF OTHER TRADES ON SITE.

3. COORDINATE WORK PRIOR TO FABRICATION AND INSTALLATION.

4. LOCATE PIPING ABOVE CEILINGS IN ALL AREAS THAT HAVE CEILINGS. PIPE SHALL BE EXPOSED IN AREAS WITHOUT CEILINGS.

5. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL MEET THE REQUIREMENTS OF NFPA–13, 14, 20, AND 24 AND SHALL BE FM APPROVED AND UL LISTED. ALL PIPE, FITTINGS, COUPLINGS, VALVES, & HEADS SHALL BE DOMESTIC.

6. ALL WORK SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF LOCAL AND STATE CODES, LAWS, AND ORDINANCES, THE REQUIREMENTS OF NFPA, SCDOI, AND THE LOCAL FIRE MARSHAL.

7. CONTRACTOR SHALL DESIGN, FABRICATE, INSTALL, PROVIDE, FURNISH A COMPLETE FIRE SPRINKLER SYSTEM TO PROVIDE FULL PROTECTION FOR THE ENTIRE BUILDING FOR A "FULLY SPRINKLED" BUILDING AS REQUIRED BY NFPA–13, SCFC SCBC, AND THE LOCAL CODES.

8. PROVIDE FIRE RATED PIPE PENETRATION AROUND ALL PIPES PASSING THRU ANY FIRE RATED WALL OR FLOOR ASSEMBLY. FIRE STOPPING SHALL MATCH THE HOUR RATING OF THE ASSEMBLY. SEAL TIGHT AROUND ALL METAL PIPE PASSING THRU CORE DRILLED OR FORMED HOLES IN THE PRECAST CONCRETE. PROVIDE SCHEDULE 40 STEEL SLEEVES FOR PIPE PENETRATIONS THROUGH MASONRY WALLS.

9. CONTRACTOR SHALL FLUSH AND HYDROSTATICALLY TEST PIPE IN ACCORDANCE WITH NFPA–13. TEST SHALL BE COMPLETED PRIOR TO INSTALLATION OF CEILINGS.

10. CONTRACTOR SHALL INSTALL DOMESTICALLY MANUFACTURERED STEEL PIPE AND FITTINGS FOR ALL THREADED AND FOR ALL ROLL GROOVED PIPE. PIPE SHALL BE OF SCHEDULE WEIGHT AS LISTED IN THE SPECIFICATIONS. INSTALLATION PER NFPA–13.

11. FITTINGS MAY BE SCREWED CAST IRON, FLANGED, WELDED, OR MECHANICAL TYPE.

12. HANGERS SHALL CONSIST OF CONCRETE INSERTS, ALL THREAD ROD, AND ADJUSTABLE SWIVEL RINGS. WHERE ATTACHING TO STEEL USE TOP BEAM CLAMPS. SPACE HANGERS PER NFPA–13. ALL HANGER PARTS AND RODS SHALL BE GALVANIZED.

13. SEISMIC RESTRAINTS AND HANGERS SHALL BE PROVIDED FOR EQUIPMENT AND MATERIAL AS REQUIRED BY THE INTERNATIONAL BUILDING CODE. PROVIDE SHOP DRAWINGS PREPARED AND STAMPED BY A S.C. P.E.

14. ALL EXPOSED PIPE SHALL BE "PAINTED" PER SPECS, CONCEALED PIPE SHALL HAVE PIPE MARKERS PER 15100.

15. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA, AND HYDRAULIC CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING FABRICATION OR INSTALLATION OF ANY EQUIPMENT. ONCE APPROVED BY ENGINEER, SUBMIT ENTIRE PACKAGE TO THE LOCAL, STATE FIRE MARSHAL & DSRM AS A.H.J.

16. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS, LICENSEES, AND INSPECTION FEES PERTAINING TO THIS WORK. OBTAIN FINAL APPROVAL OF COMPLETE INSTALLED SYSTEM FROM THE LOCAL AND STATE FIRE MARSHAL.

17. SPRINKLER HEADS SHALL BE PENDANT TYPE IN CLOSETS AND "JANITOR/MECHANICAL" CEILINGS, SEMI RECESSED IN ALL OTHER CEILINGS, BRASS UPRIGHT IN AREAS WITHOUT CEILINGS, HEADS SHALL BE 1/2" AND 165 DEGREE TEMPERATURE RATED. FURNISH QUICK RESPONSE HEADS IN ALL LIGHT HAZARD AREAS.

18. AFTER PROJECT COMPLETION, THE OWNER WILL BE RESPONSIBLE FOR MAINTAINING BUILDING TEMPERATURE ABOVE 40 DEGREES IN ALL INTERIOR AREAS.

DESIGN CRITERIA

1. SYSTEM(S) TYPE IS WET PIPE
2. OCCUPANCY B
3. HAZARDS ARE LISTED ON PLANS FOR EACH AREA.
4. DENSITY IS LISTED ON PLANS FOR EACH AREA.
5. REMOTE AREA: 1500 SQUARE FEET
6. HOSE REQUIREMENT: 250 GPM
7. FLOW TEST DATA:
   SEE SPEC SHEET.

NOTE TO BIDDERS/CONTRACTOR:
THE DRAWINGS ARE A SCHEMATIC 2D REPRESENTATION OF A 3D SYSTEM. ALL FIELD CONDITIONS MAY NOT BE EVIDENT AT THE TIME OF ISSUANCE OF THIS DRAWING. SOME TURNS, ELEVATION CHANGES, FITTINGS, ETC. WILL HAVE TO BE FABRICATED, CHANGED OR MODIFIED IN THE FIELD TO MEET THE CONDITIONS PRESENT AT THE TIME OF CONSTRUCTION. COORDINATE WITH ALL TRADES AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. MECHANICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF CONSTRUCTION DRAWINGS FOR COORDINATION PRIOR TO SUBMITTING A BID.

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SOUTH CAROLINA RAST DALLERY ENGINEERS, PC No. 3251 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 17473 9/13/24 RICHARD W. DALLERY

OWNER

HORRY COUNTY THE INDEPENDENT REPUBLIC S. C.

PROJECT

A NEW BUILDING REPLACEMENT FOR:
FINKLEA FIRE STATION #6
SOUTH CAROLINA
HORRY COUNTY

PROJECT NUMBER
24002

DRAWN: CHECKED:

DATE: 8-28-24

SHEET TITLE
DETAILS AND RISER

SHEET NO.
FP3.0

RAST DALLERY ENGINEERS, PC
514 ALDER STREET, SUITE 4
MYRTLE BEACH, SC 29577
PHONE: (843) 232–0408

JOB NO: 24029

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